

UTILITY TUNNEL EXTENSION - REDWOOD ROAD CAMPUS

Salt Lake Community College
Redwood Campus
Salt Lake City, Utah

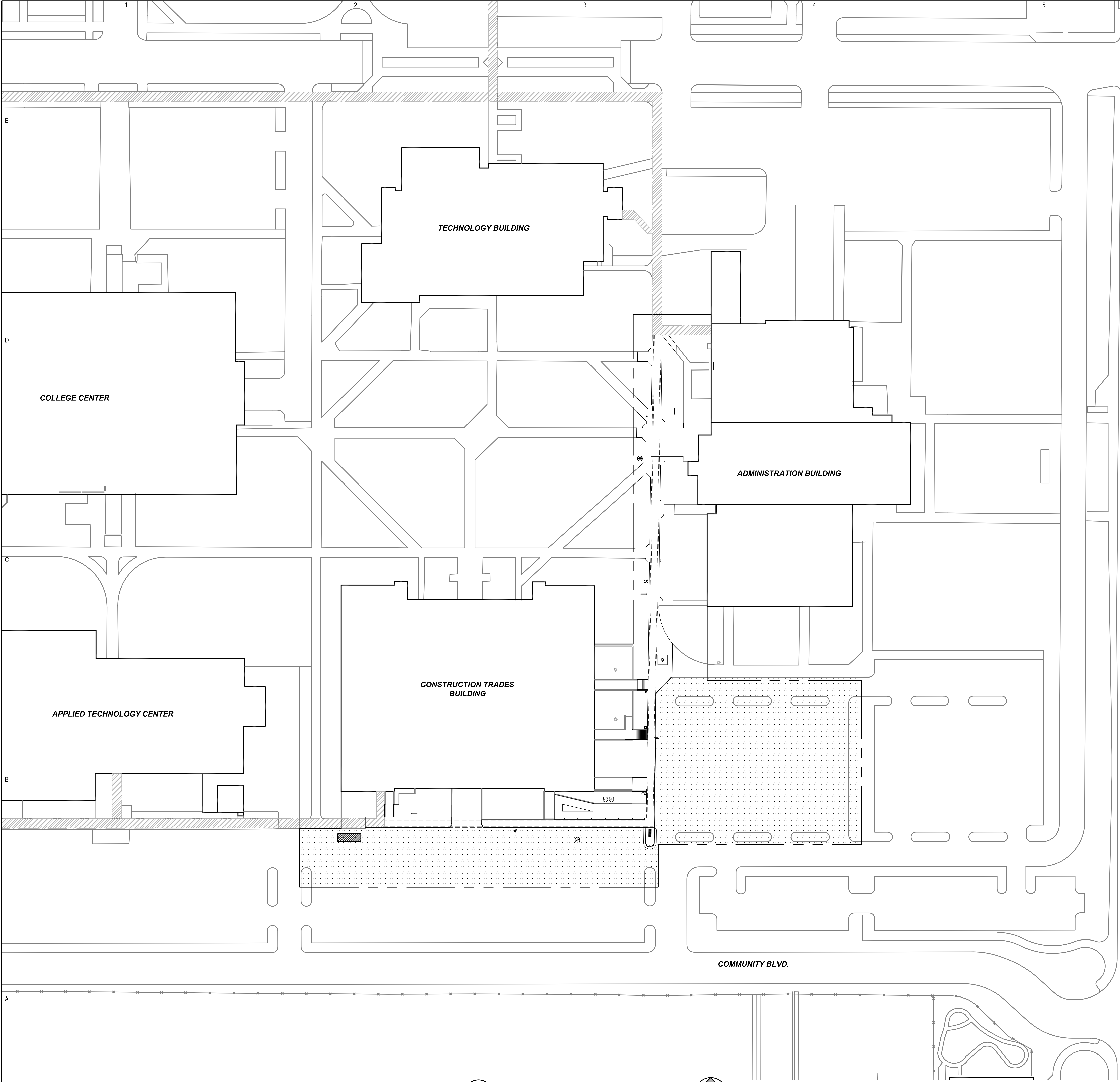


State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

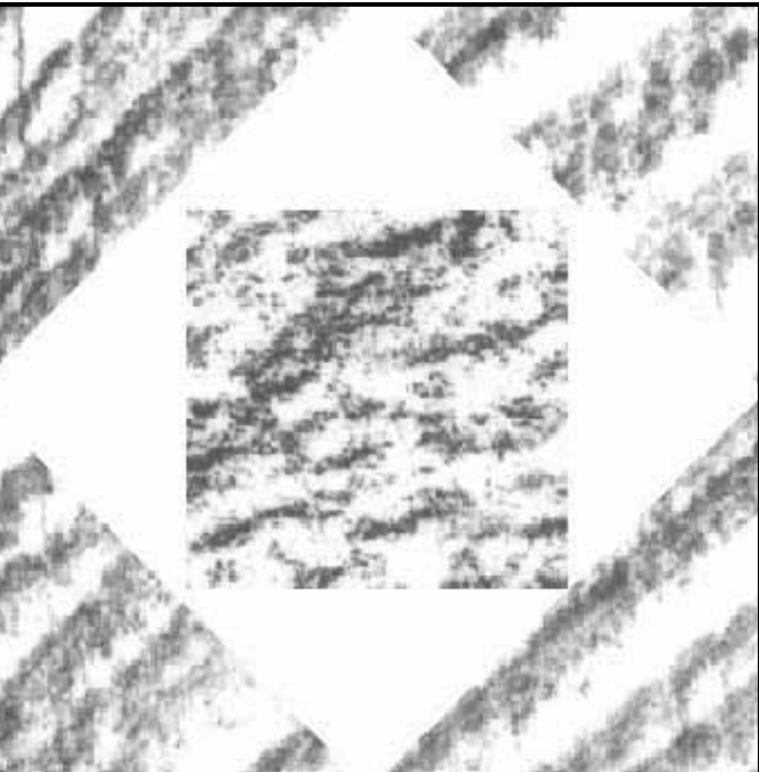
4110 State Office Building/Salt Lake City, Utah 84114/538-301

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GENERAL NOTES

1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
2. PROTECT ALL AREAS & SURFACES ADJACENT TO DEMOLITION & CONSTRUCTION. PATCH & REPAIR ANY DAMAGE RESULTING FROM THE DEMOLITION OF EXISTING ITEMS OR THE CONSTRUCTION OF NEW ITEMS.
3. NOTED AREAS INDICATED THE GENERAL EXTENT OF DEMOLITION. THE CONTRACTOR'S CHOICE OF MEANS & METHODS OF CONSTRUCTION MAY REQUIRE MORE OR LESS DEMOLITION. THE MEANS & METHODS OF DEMOLITION & CONSTRUCTION MUST BE ACCOUNTED FOR IN THE CONTRACTOR'S BID - ANY DEMOLITION & REPAIR TO ADJACENT SURFACES BEYOND THE AREAS INDICATED IN THE CONTRACT DOCUMENTS WILL NOT BE COMPENSATED FOR AFTER THE BID OPENING.
4. 72-HOUR NOTICE IS REQUIRED FOR ANY UTILITY SHUT DOWN.



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UTILITY TUNNEL
EXPANSION -
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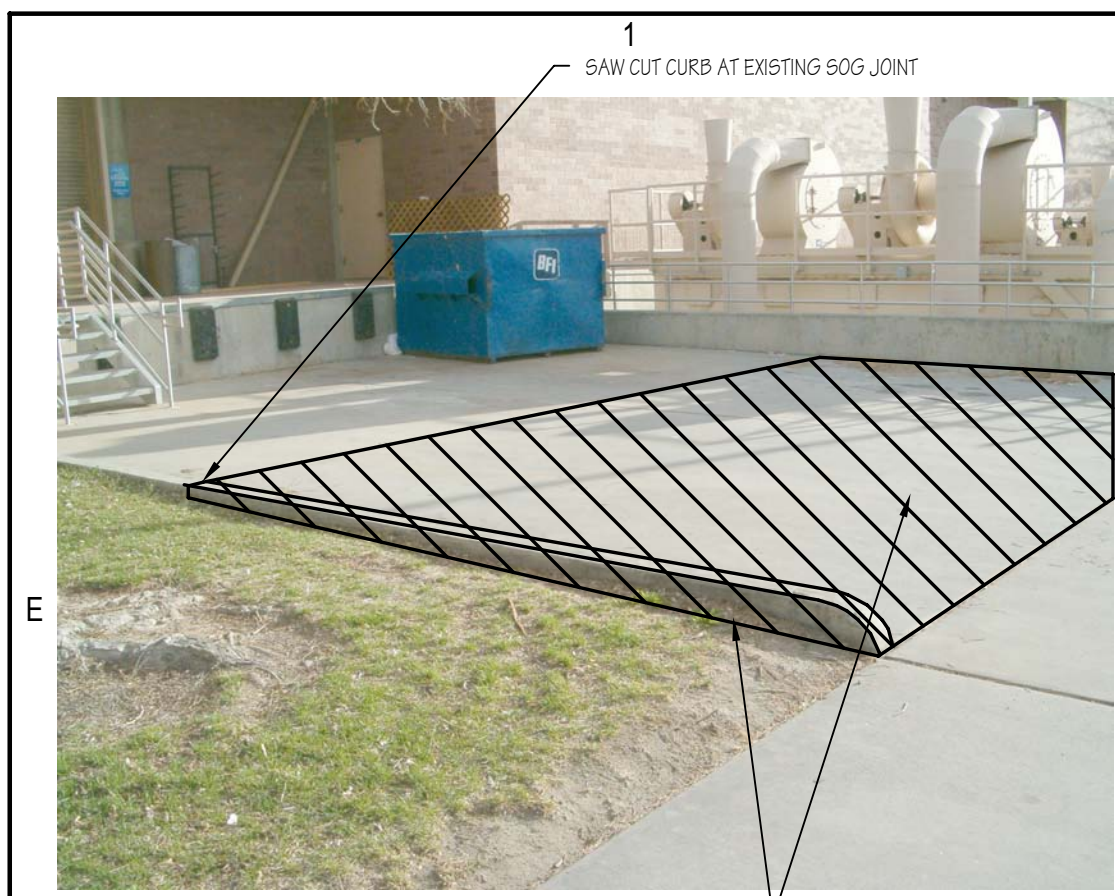
SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

DATE:	16 MARCH 2007
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DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE
**OVERALL SITE PLAN,
CONSTRUCTION LIMIT
& STAGING AREAS**

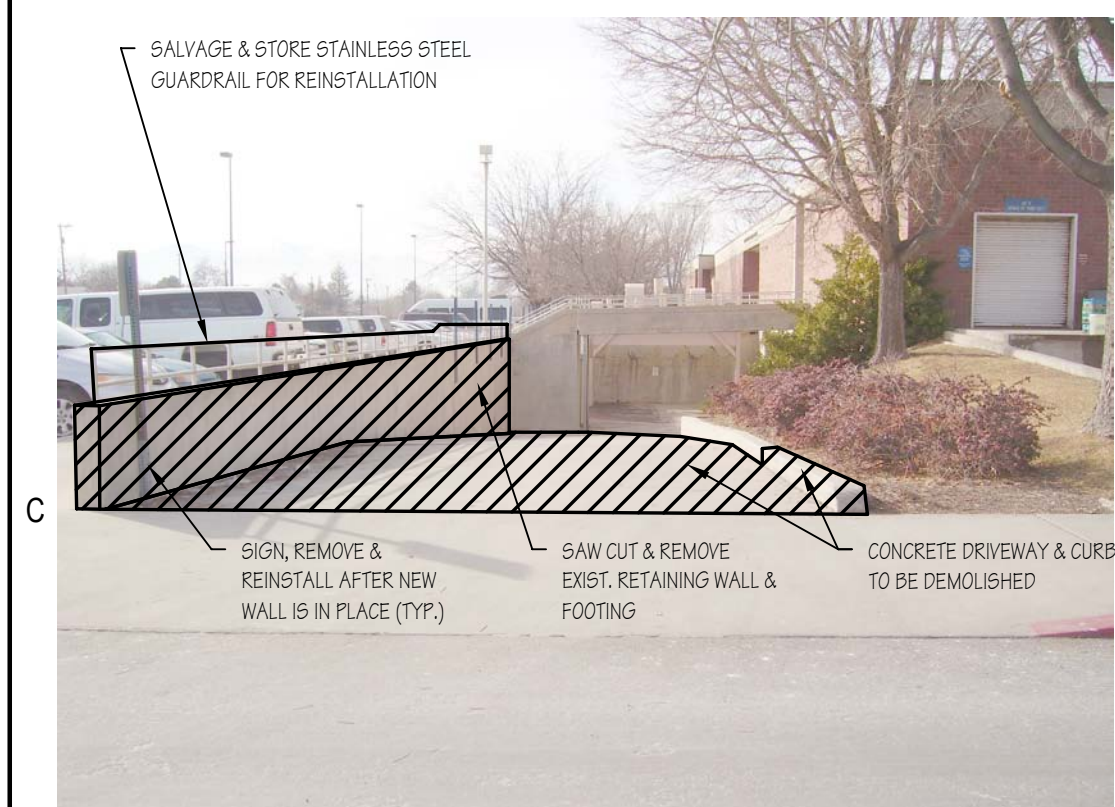
AS101
SHEET 2 OF 27



E1 PHOTO W/ OVERLAY OF DEMOLITION
NOTE: AREA SHOWN IS APPROX, SEE RELATED DWGS FOR EXTENT



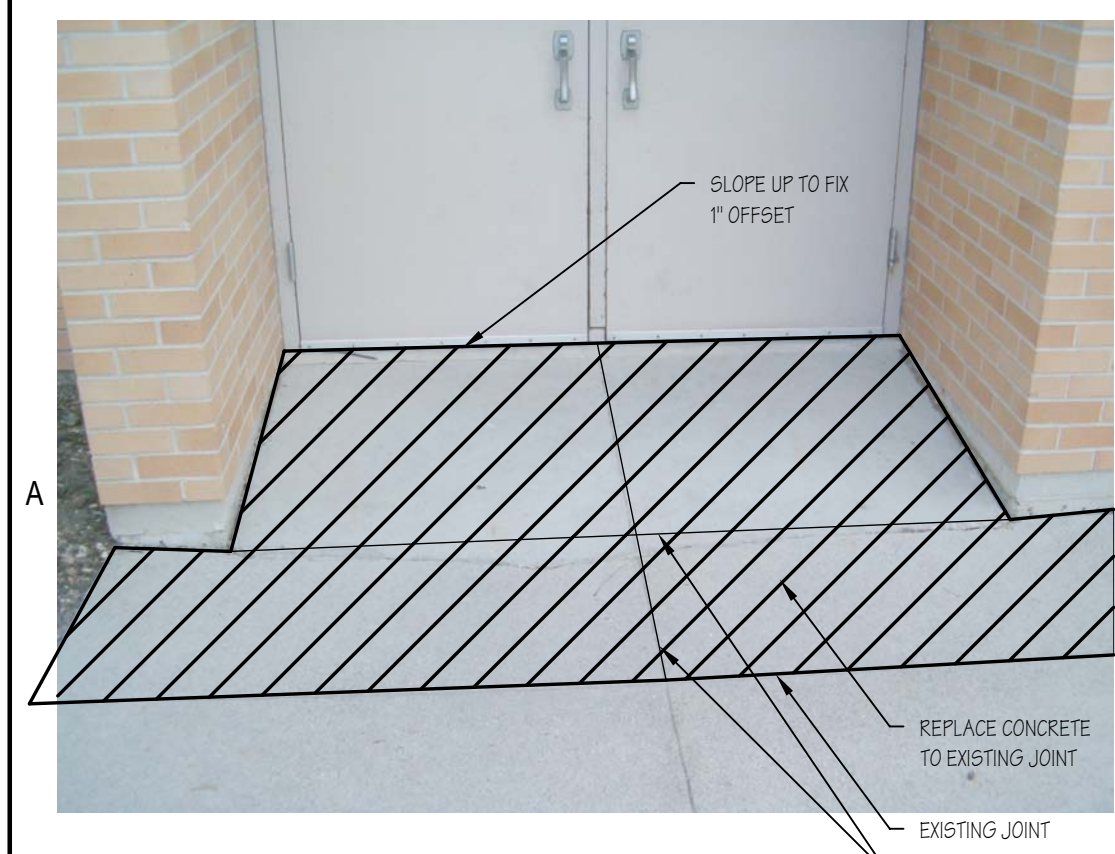
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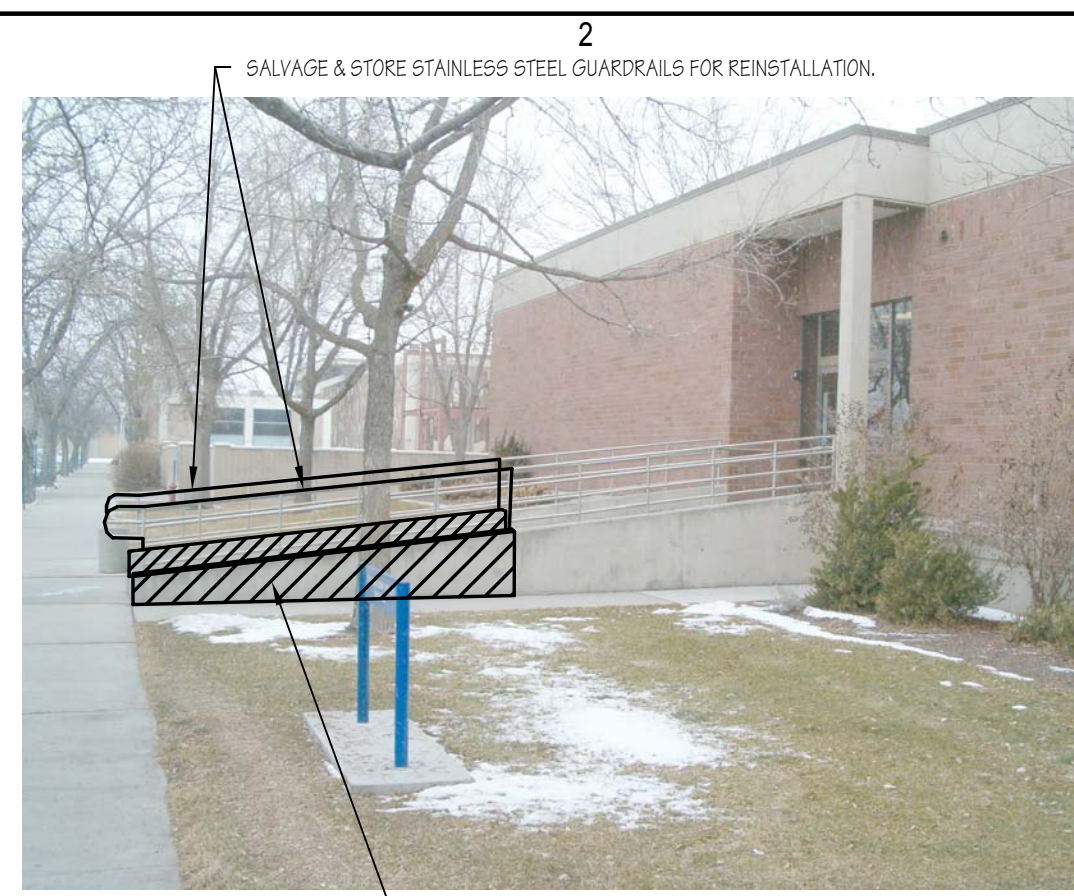
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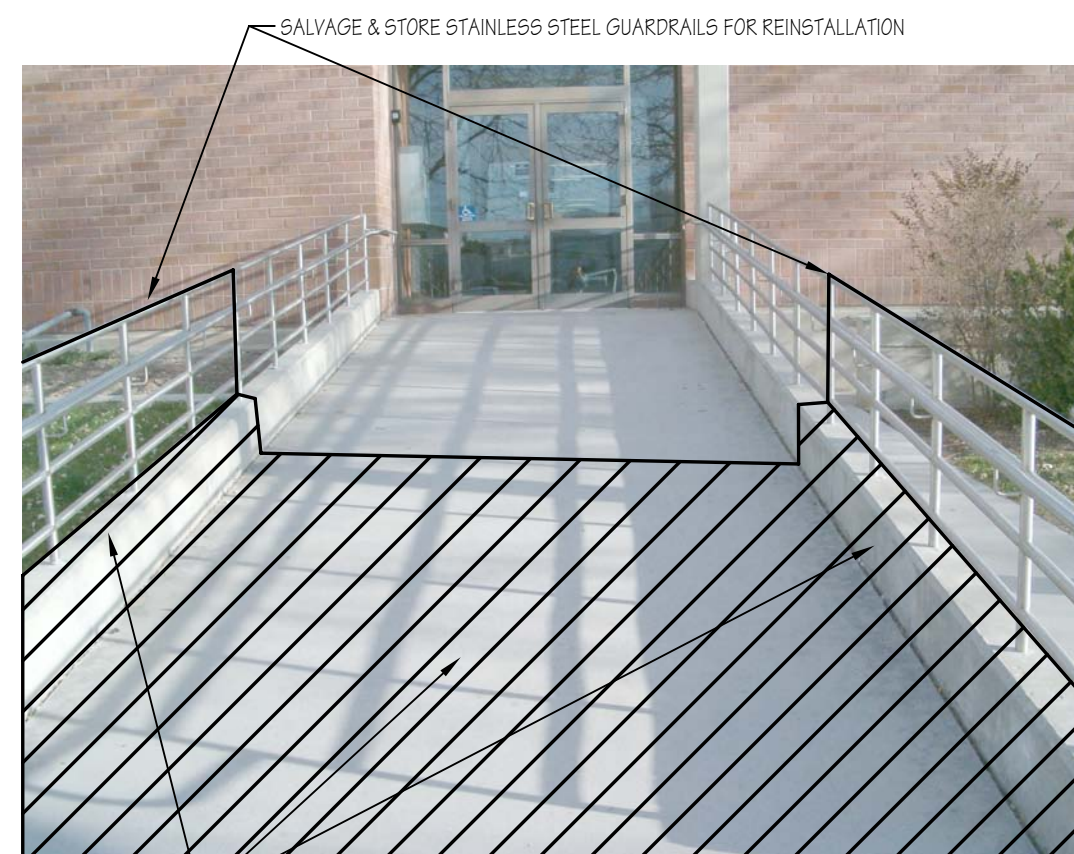
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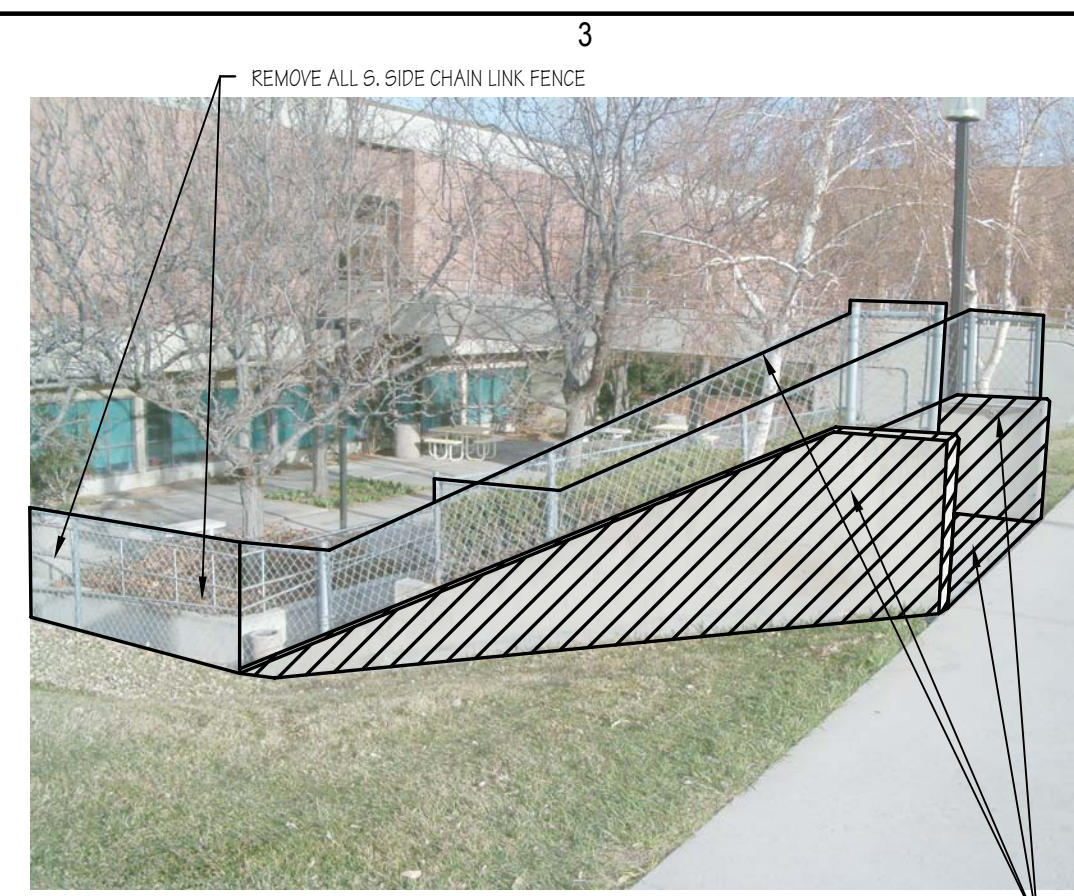
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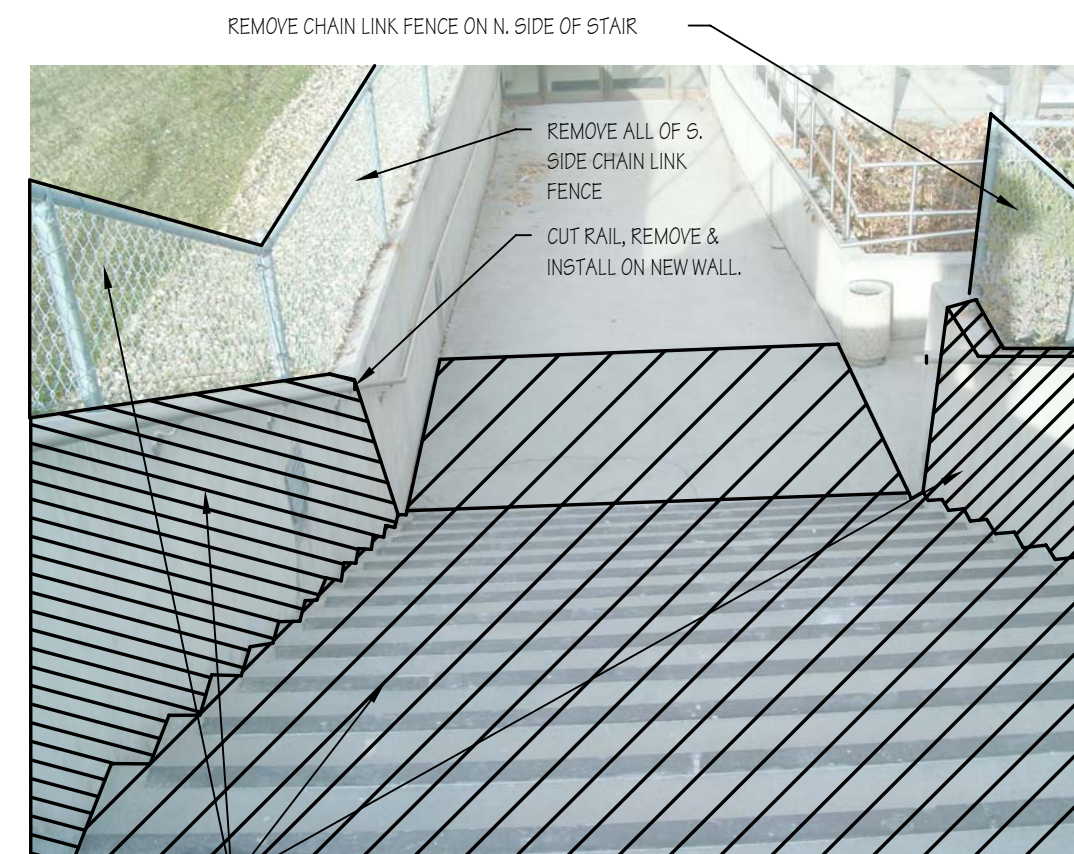
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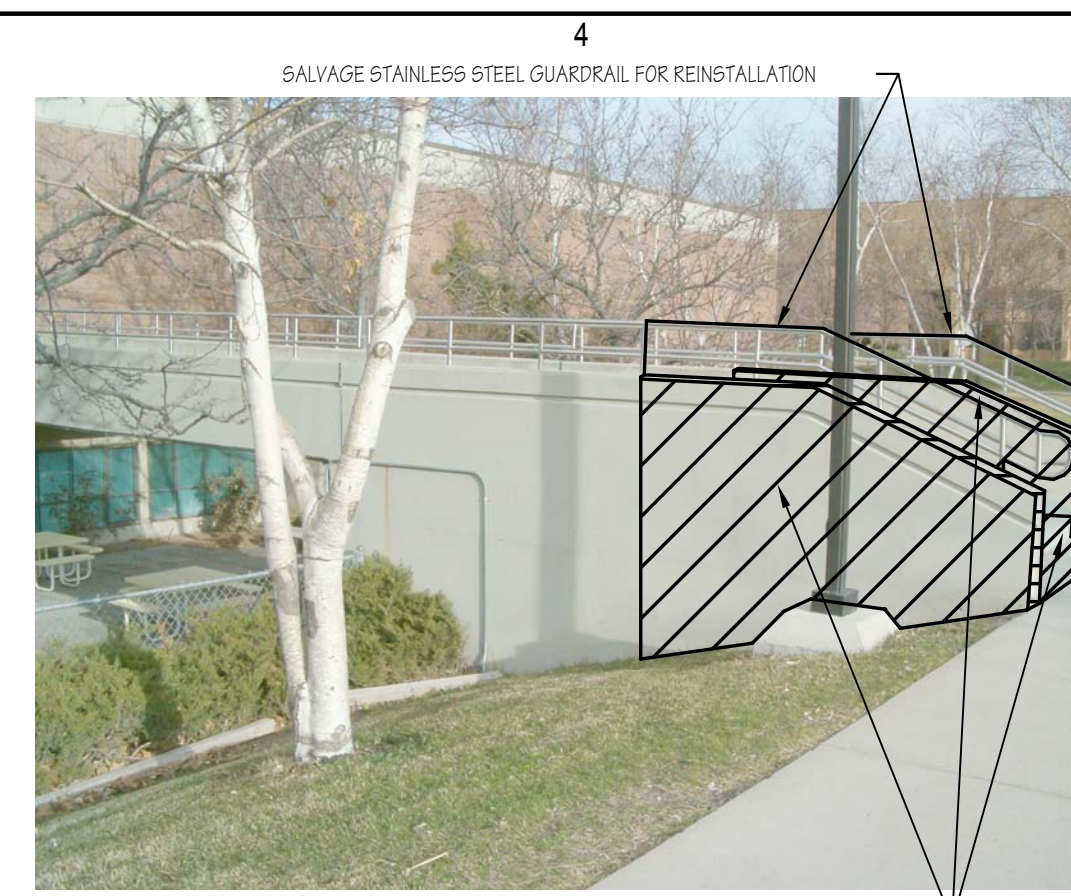
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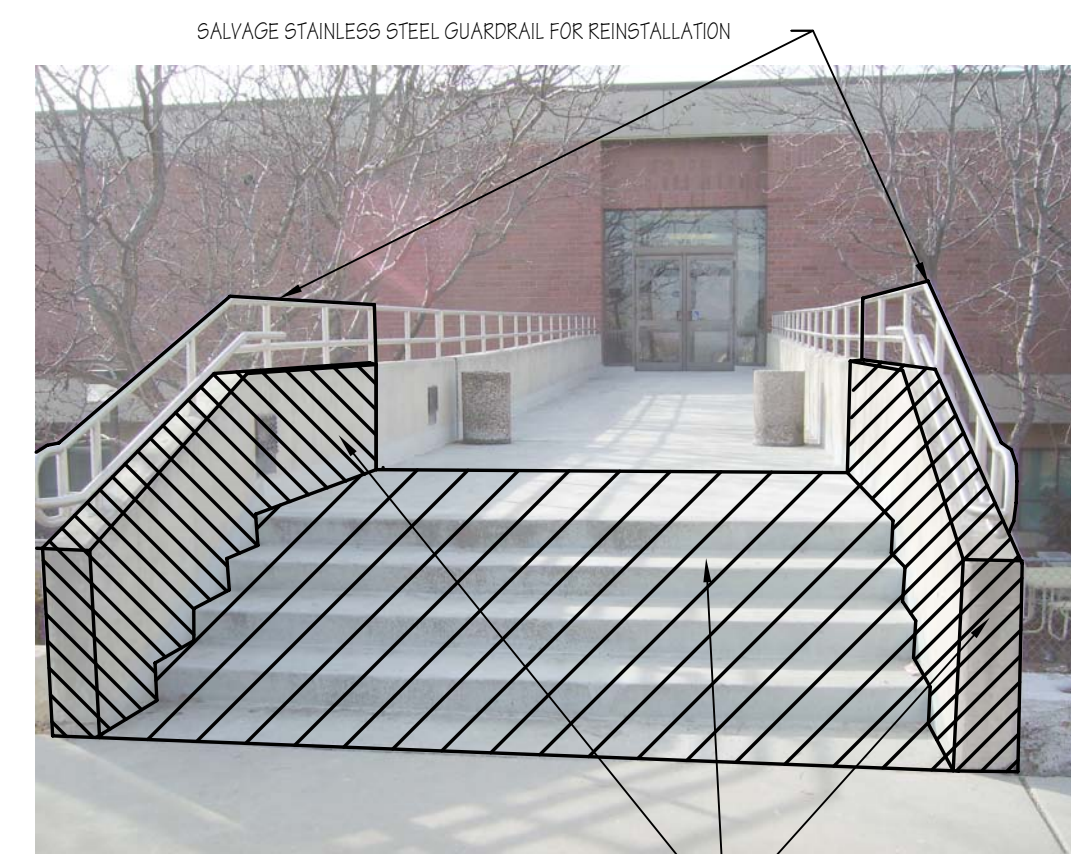
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NOTE: AREA SHOWN IS APPROX, SEE RELATED DWGS FOR EXTENT



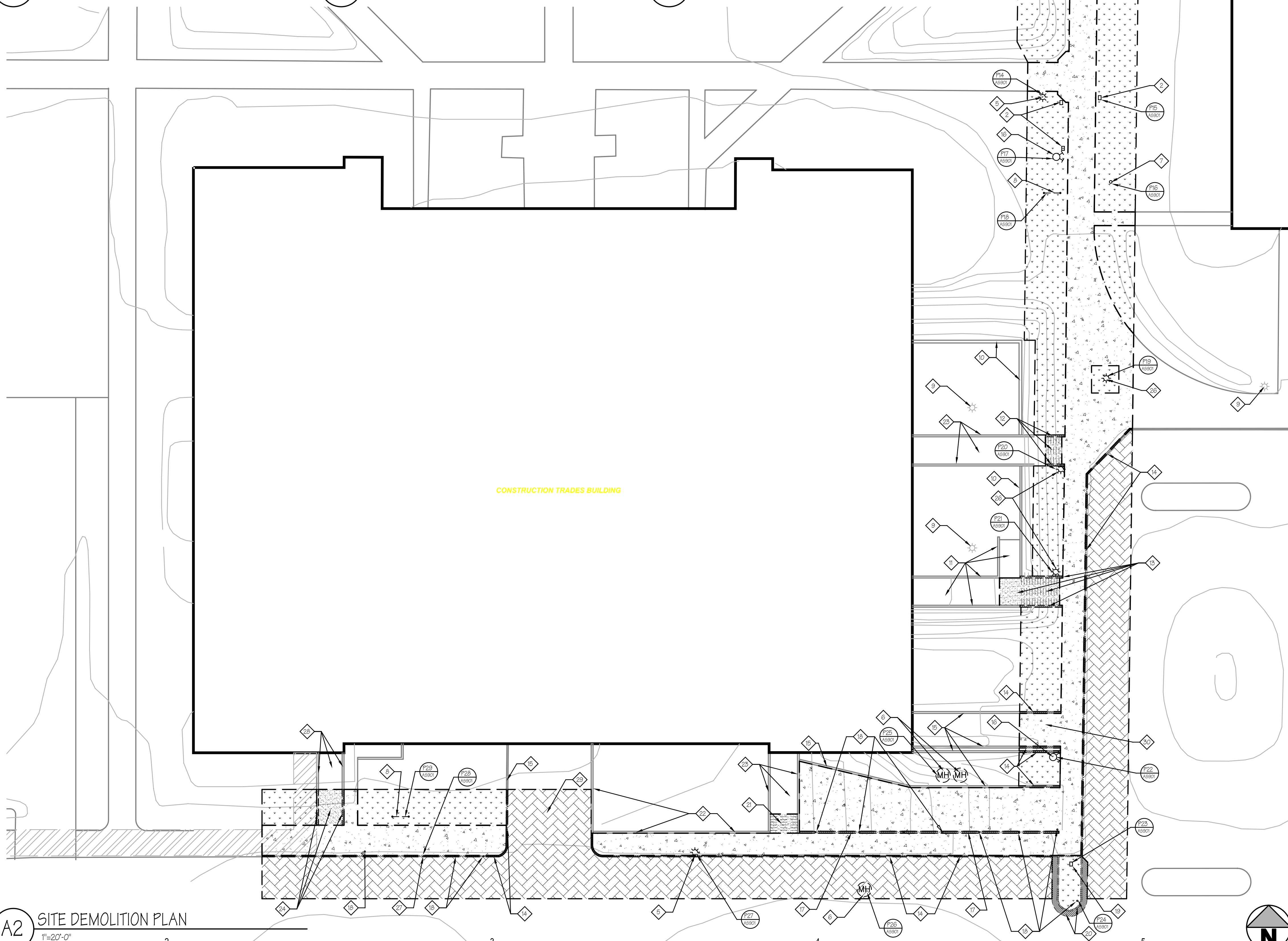
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E4 PHOTO W/ OVERLAY OF DEMOLITION
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D4 PHOTO W/ OVERLAY OF DEMOLITION
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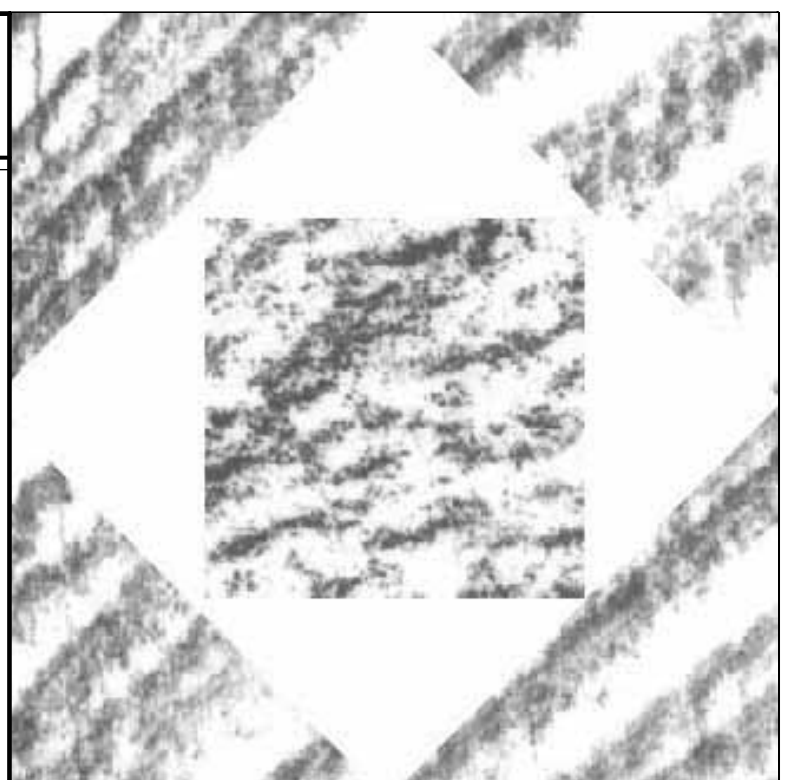


DEMOLITION KEYED NOTES

- WATER VALVE BOX, TEMPORARILY ISOLATE & REMOVE, SEE LANDSCAPE DWGS FOR REINSTALLATION & LOCATION.
- IRRIGATION BOX, TEMPORARILY ISOLATE & REMOVE, SEE LANDSCAPE DWGS FOR REINSTALLATION & LOCATION.
- CATCH BASIN & GRATE TO BE COMPLETELY DEMOLISHED & REMOVED.
- WATER VALVE BOX IN CONCRETE WALK, TEMPORARILY ISOLATE & REMOVE, SEE LANDSCAPE DWGS FOR REINSTALLATION & LOCATION.
- LIGHT POLE & CONCRETE BASE, TERMINATE & CAP UTILITIES, SALVAGE LIGHT POLE / FUTURE & RETURN TO OWNER, COMPLETELY DEMOLISH & REMOVE CONCRETE BASE & ABANDON CONDUIT & WIRING.
- EXISTING MANHOLE TO REMAIN, PROTECT FROM DAMAGE.
- EXISTING CLEAN-OUT COVER & CONCRETE SURROUND TO REMAIN, PROTECT FROM DAMAGE.
- BLDG SIGN & CONCRETE BASE, LOOSEN SET SCREWS, REMOVE SIGN & STORE FOR REINSTALLATION, COMPLETELY DEMOLISH & REMOVE CONCRETE BASE.
- EXISTING LIGHT POLE / FUTURE & CONCRETE BASE TO REMAIN, PROTECT FROM DAMAGE.
- EXISTING CONCRETE / STONE RETAINING WALLS, FOOTINGS & FENCING TO REMAIN, PROTECT FROM DAMAGE.
- EXISTING CONCRETE RAMP, RETAINING WALLS, FOOTINGS & FENCING TO REMAIN, PROTECT FROM DAMAGE.
- CONCRETE STAIRS, WALLS, FOOTINGS & BRIDGE TO BE DEMOLISHED & REMOVED, SALVAGE STAINLESS STEEL GUARDRAIL FOR REINSTALLATION, SAW-CUT GUARDRAIL POSTS FLUSH W/ TOP OF WALL, SEE DTLS D2/D101 & E2/D101 FOR REFERENCE.
- CONCRETE STAIRS, LANDING, RETAINING WALLS, FOOTINGS & FENCING TO BE DEMOLISHED & REMOVED, SEE DTLS D2/D101 & E2/D101 FOR REFERENCE.
- CONCRETE CURB TO BE DEMOLISHED & REMOVED.
- EXISTING CONCRETE CURB TO REMAIN, PROTECT FROM DAMAGE.
- EXISTING FIRE HYDRANT TO REMAIN, PROTECT FROM DAMAGE.
- CONCRETE RETAINING WALL, FOOTINGS & ADJACENT DRIVEWAY TO BE DEMOLISHED & REMOVED, SALVAGE & STORE STAINLESS STEEL GUARDRAIL FOR REINSTALLATION, SAW-CUT GUARDRAIL POSTS FLUSH W/ TOP OF WALL, SEE DTLS D2/D101 & E2/D101 FOR REFERENCE.
- SIGN TO BE SALVAGED & STORED FOR REINSTALLATION.
- ELECTRICAL BOX, TEMPORARILY ISOLATE & REMOVE, SEE ELECTRICAL DWGS FOR REINSTALLATION & LOCATION.
- CONCRETE CURB & GUTTER TO BE DEMOLISHED & REMOVED.
- CONCRETE BRIDGE STAIRS TO BE DEMOLISHED & REMOVED, PROTECT ADJACENT CONCRETE BRIDGE, WALLS & STAINLESS STEEL RAILINGS FROM DAMAGE, SEE DTLS D1/D101 FOR REFERENCE.
- EXISTING CONCRETE RETAINING WALLS, FOOTINGS & STAINLESS STEEL GUARDRAILS TO REMAIN, PROTECT FROM DAMAGE.
- EXISTING CONCRETE BRIDGE, WALLS & STAINLESS STEEL GUARDRAILS TO REMAIN, PROTECT FROM DAMAGE.
- CONCRETE RAMP, RETAINING WALLS & FOOTINGS TO BE DEMOLISHED & REMOVED, SALVAGE & STORE STAINLESS STEEL GUARDRAILS FOR REINSTALLATION, SAW-CUT GUARDRAIL POSTS FLUSH W/ TOP OF WALL, SEE DTLS D2/D101 & E2/D101 FOR REFERENCE.
- CONCRETE WALK & THRESHOLD TO BE DEMOLISHED & REMOVED, SEE DTLS A1/D101 FOR REFERENCE.
- LIGHT POLE & CONCRETE BASE, TEMPORARILY ISOLATE UTILITIES, CAREFULLY REMOVE & STORE LIGHT POLE / FUTURE FOR REINSTALLATION, COMPLETELY DEMOLISH & REMOVE CONCRETE BASE.
- PARKING METER TO BE SALVAGED & STORED FOR REINSTALLATION.
- EXISTING CONCRETE RAMP, RETAINING WALLS & FOOTINGS TO REMAIN, PROTECT FROM DAMAGE.
- CONCRETE DRIVEWAY & CURB TO BE DEMOLISHED & REMOVED, SEE DTLS D1/D101 FOR REFERENCE.
- CONCRETE DRIVEWAY & CURBS TO BE DEMOLISHED & REMOVED, SEE DTLS D1/D101 FOR REFERENCE.

DEMOLITION PLAN LEGEND

- EXISTING 2" ASPHALT PAVING & 8" ROAD BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT AREA TO BE REMOVED AS REQUIRED.
- EXISTING CONCRETE SIDEWALK & BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT CONCRETE TO BE REMOVED BACK TO NEAREST EXISTING CONTROL/EXPANSION JOINT.
- EXISTING LANDSCAPING & SOO TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION.
- EXISTING BRICK PAVERS TO BE SALVAGED & STORED FOR REINSTALLATION, SAND SETTING BED, FILTER FABRIC, CONCRETE SLAB & BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT CONCRETE TO BE REMOVED AS REQUIRED.
- EXISTING CONCRETE STAIRS, CONCRETE RAMPS & BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT CONCRETE TO BE REMOVED BACK TO NEAREST EXISTING CONTROL/EXPANSION JOINT.
- EXISTING UNDERGROUND TUNNEL.
- EXISTING CONCRETE CURB, GUTTER & BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION, SAW-CUT CURBS TO BE REMOVED BACK TO NEAREST EXISTING CONTROL/EXPANSION JOINT.
- EXISTING CONCRETE RETAINING WALL, FOOTINGS & BASE TO BE DEMOLISHED & REMOVED PRIOR TO EXCAVATION.



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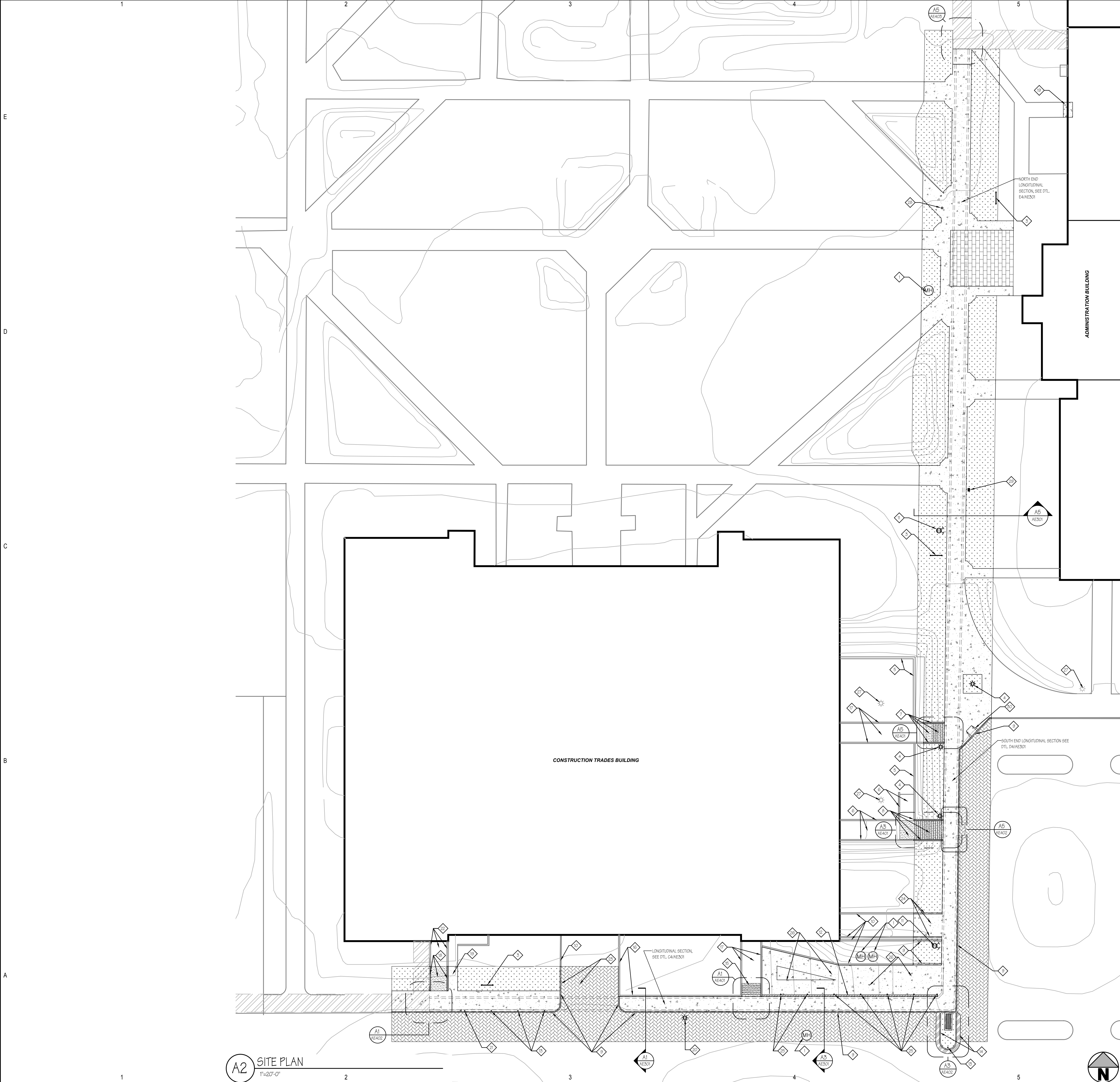
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SALT LAKE COMMUNITY COLLEGE
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SITE DEMOLITION
PLAN
AD101
SHEET 3 OF 27

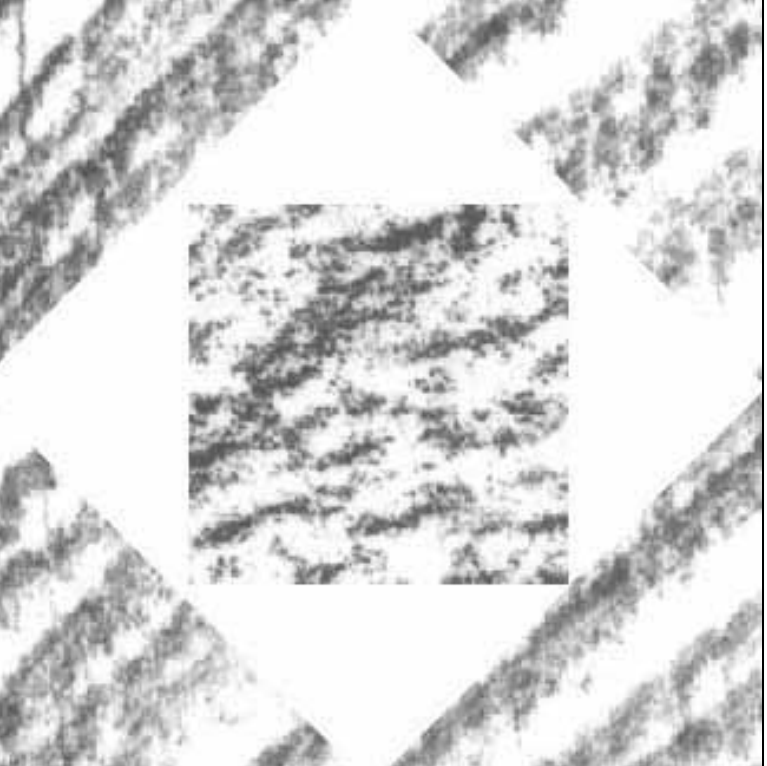


SITE PLAN KEYED NOTES

- EXISTING MANHOLE.
- EXISTING CLEAN-OUT COVER & CONCRETE SURROUND, SEE DTL E4/AE501.
- REINSTALL SLOCC SIGN ON NEW 7"x7"x7" CONCRETE BASE, SEE DTL5 D3/AE501 & E3/AE501.
- REINSTALL LIGHT POLE / FIXTURE ON NEW CONCRETE BASE, SEE ELECTRICAL DWGS.
- EXISTING CONCRETE / STONE RETAINING WALLS.
- EXISTING CONCRETE RAMP & RETAINING WALLS.
- NEW CONCRETE BRIDGE & CONCRETE STAIRS, NEW CONCRETE WALLS W/ NEW CONCRETE FOOTINGS ON NEW COMPACTED BASE, REINSTALL SALVAGED STAINLESS STEEL GUARDRAILS.
- NEW CONCRETE LANDINGS & CONCRETE STAIRS, NEW CONCRETE RETAINING WALLS W/ NEW CONCRETE FOOTINGS ON 7" NEW COMPACTED BASE, NEW STAINLESS STEEL GUARDRAIL.
- NEW CONCRETE CURB ON NEW COMPACTED ROADBASE, SEE DTL A4/AE501.
- EXISTING CONCRETE CURB.
- EXISTING FIRE HYDRANT, SEE DTL5 D3/AE501 & E3/AE501.
- NEW CONCRETE RETAINING WALL W/ NEW CONCRETE FOOTING ON NEW COMPACTED BASE, REINSTALL SALVAGED STAINLESS STEEL GUARDRAIL.
- REINSTALL SIGN, SEE DTL E3/AE501 (SIMILAR).
- NEW CONCRETE CURB & GUTTER ON NEW COMPACTED ROADBASE, SEE DTL B4/AE501.
- NEW CONCRETE BRIDGE & CONCRETE STAIRS.
- EXISTING CONCRETE RETAINING WALLS & STAINLESS STEEL GUARDRAILS.
- EXISTING CONCRETE BRIDGE, WALLS & STAINLESS STEEL GUARDRAILS.
- NEW CONCRETE RAMP ON NEW COMPACTED ROADBASE, NEW CONCRETE RETAINING WALLS W/ NEW CONCRETE FOOTINGS ON NEW COMPACTED BASE, REINSTALL SALVAGED STAINLESS STEEL GUARDRAILS.
- NEW CONCRETE WALK ON NEW COMPACTED BASE & NEW THRESHOLD.
- REINSTALL LIGHT POLE / FIXTURE ON NEW CONCRETE BASE, SEE ELECTRICAL DWGS.
- REINSTALL PARKING METER, SEE DTL E3/AE501 (SIMILAR).
- EXISTING CONCRETE RAMP & RETAINING WALLS.
- NEW ASPHALT DRIVEWAY & NEW CONCRETE CURBS ON NEW COMPACTED ROADBASE.
- NEW CONCRETE DRIVEWAY & NEW CONCRETE CURBS ON NEW COMPACTED ROADBASE.
- REINSTALL SIGN.
- NEW 7" CONCRETE DRIVEWAY ON 7" NEW COMPACTED ROADBASE, SEE DTL D2/AE501.
- EXISTING LIGHT POLE & BASE.
- EXISTING WATER VALVE BOX, SEE LANDSCAPE DWGS.
- EXISTING CLEAN-OUT BOX, COVER & CONCRETE SURROUND.
- HANDICAPPED RAMP, SEE DTL B4/AE501.

NEW SITE PLAN LEGEND

- NEW ASPHALT PAVING & COMPACTED ROADBASE
- NEW CONCRETE SIDEWALK & COMPACTED BASE, SEE DTL5 D6/AE501 & E6/AE501 TYPICAL
- NEW LANDSCAPING & BUI, SEE LANDSCAPE DWGS
- SALVAGED BRICK PAVERS TO BE REINSTALLED, SEE DTL B5/AE501 TYPICAL
- NEW CONCRETE STAIRS, CONCRETE RAMPS & COMPACTED BASE, SEE SECTION DWGS
- EXISTING UNDERGROUND TUNNEL
- NEW CONCRETE CURB, CONCRETE GUTTER & COMPACTED ROADBASE, SEE DTL5 A5/AE501, A4/AE501 & B4/AE501 TYPICAL
- NEW CONCRETE RETAINING WALL, CONCRETE FOOTINGS & COMPACTED BASE, SEE SECTION DWGS



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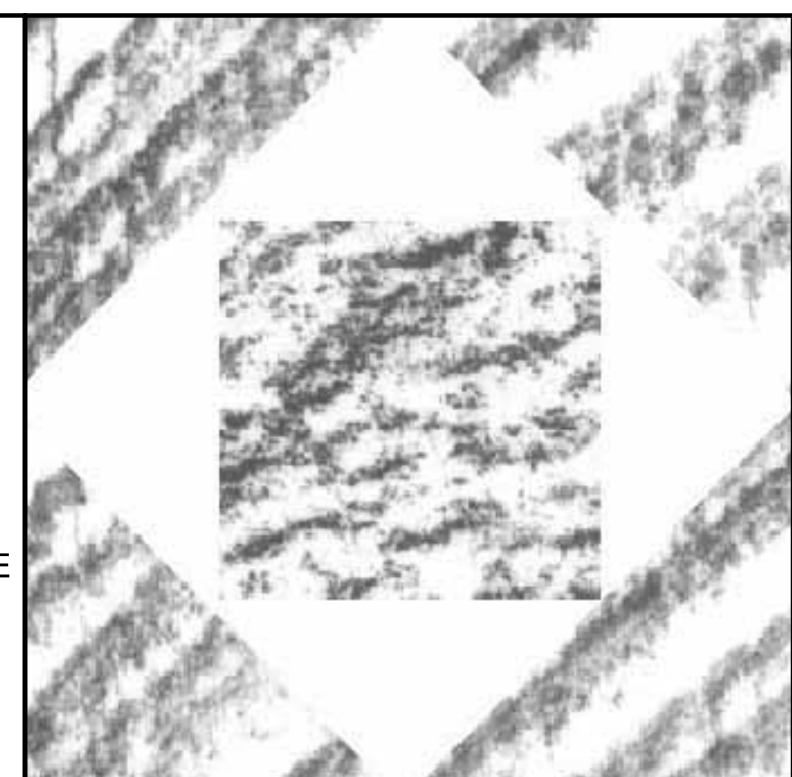
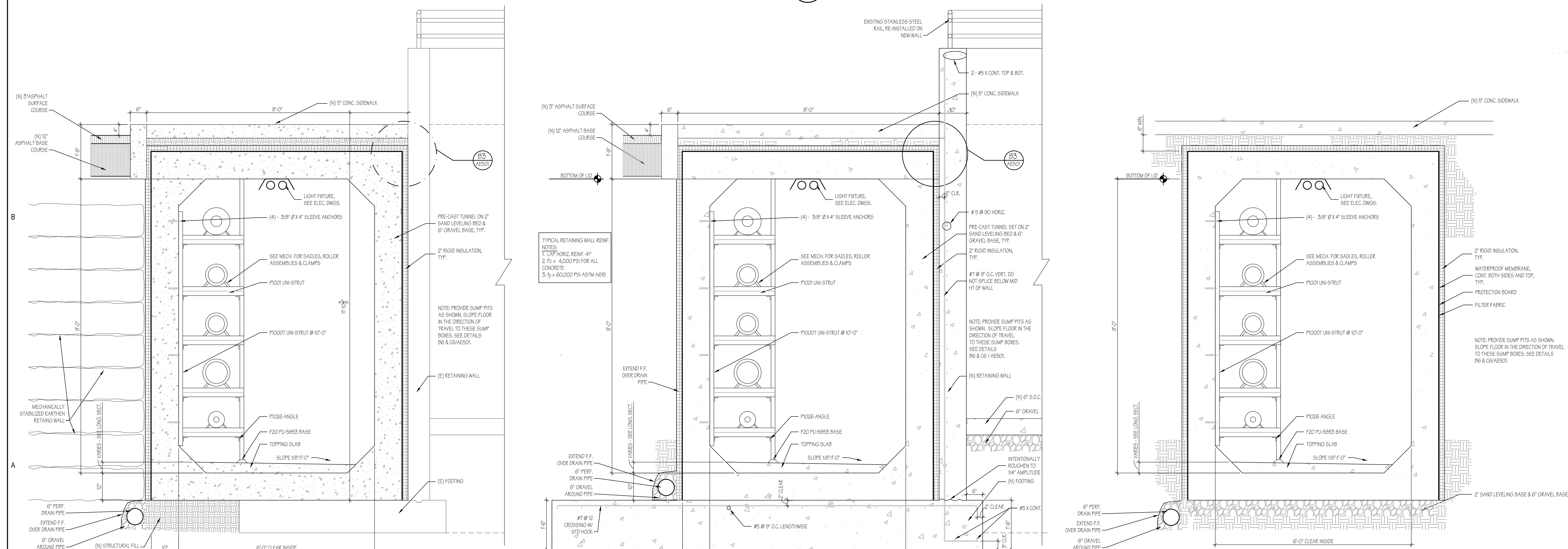
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SHEET TITLE

SITE PLAN

AE101

SHEET 4 OF 27

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SHEET TITLE A TUNNEL SECTIONS		
A E 301		
SHEET	5 OF	27



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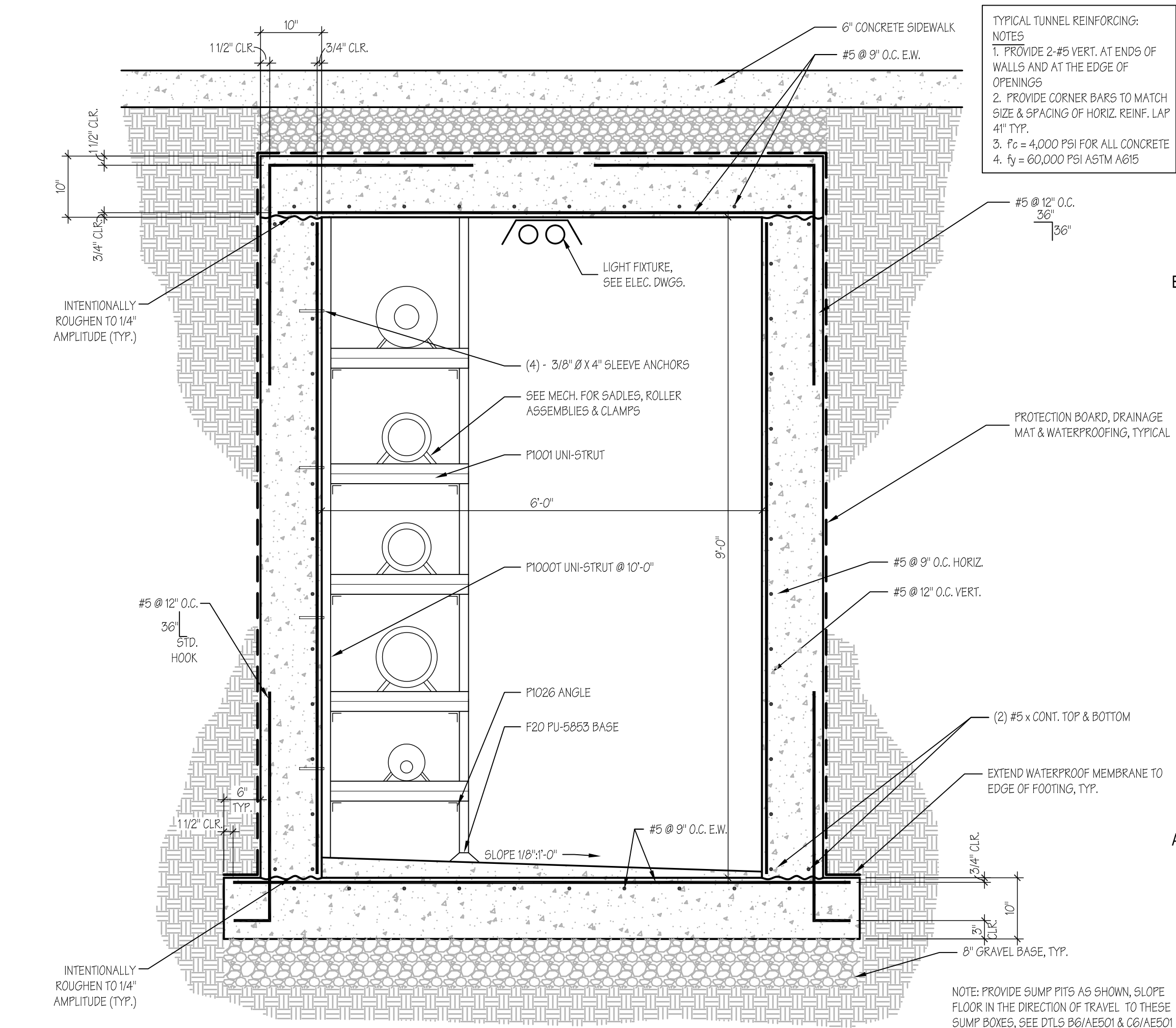
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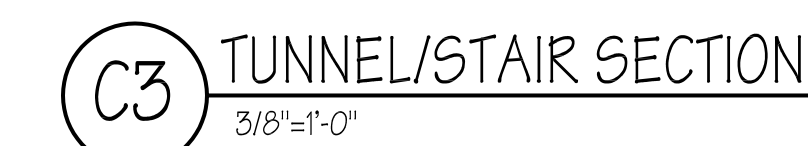
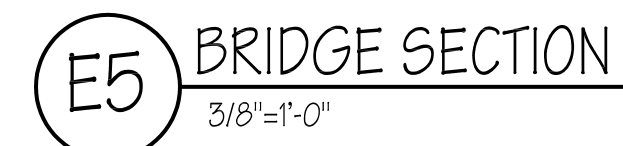
TUNNEL SECTIONS

AE302

SHEET 6 OF 27



(A5) CAST-IN-PLACE TUNNEL SECTION, (TYP.)
3/4"=1'-0" 5



ARCHITECTURE

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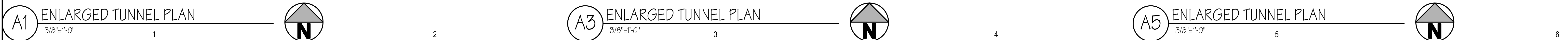
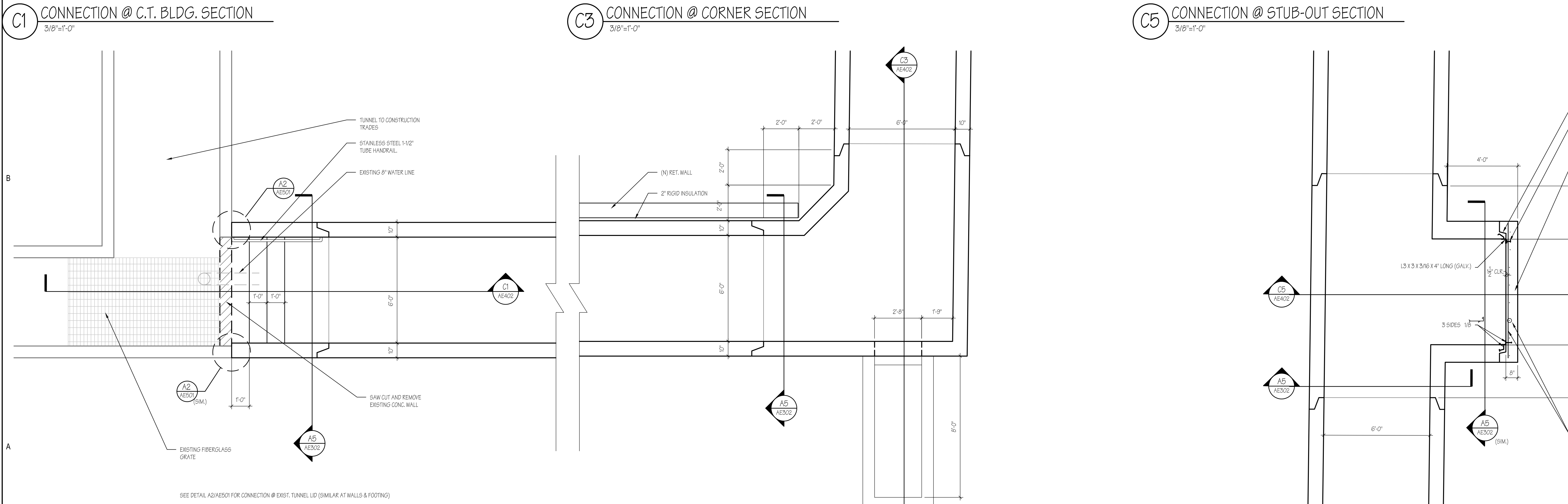
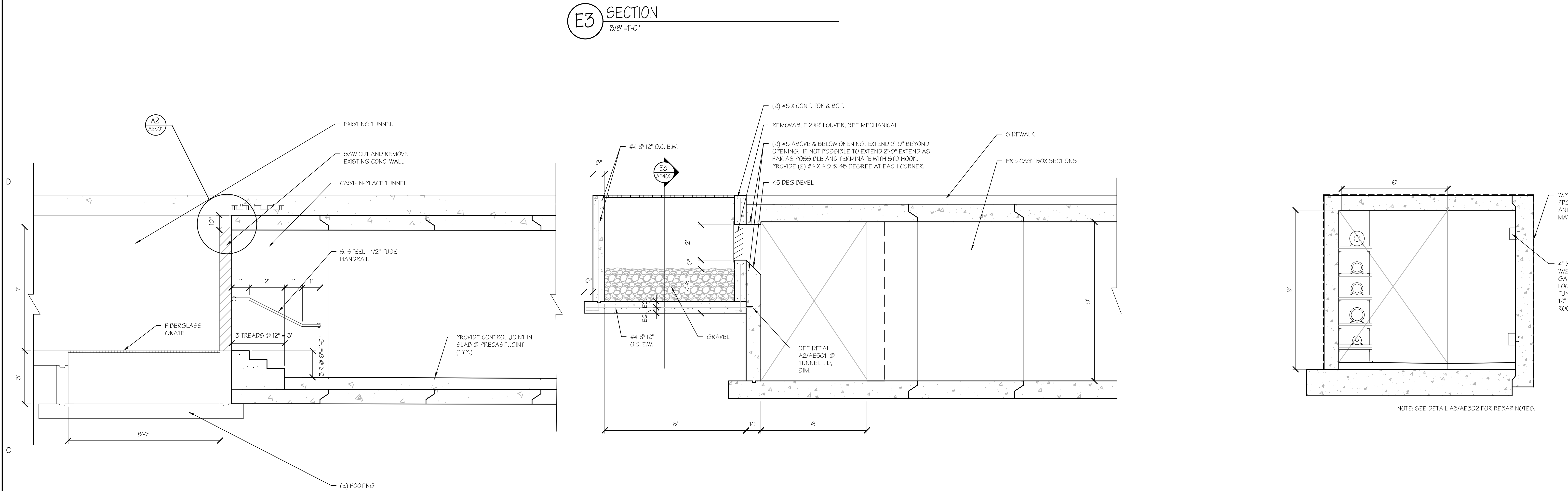
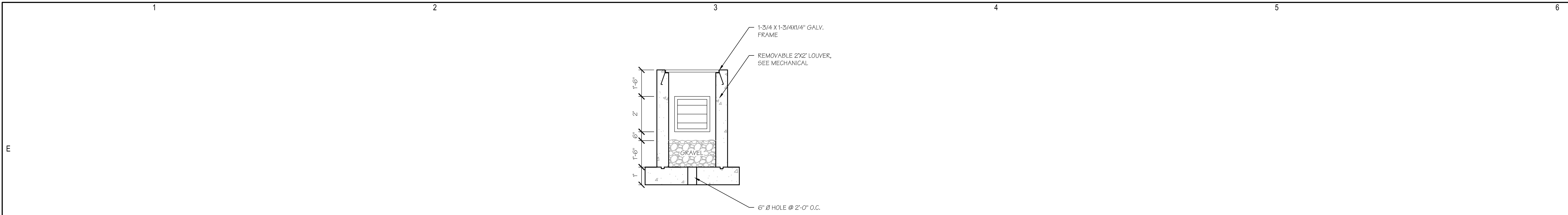
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SHEET TITLE

ENLARGED PLANS & SECTIONS

AE401

SHEET 7 OF 27



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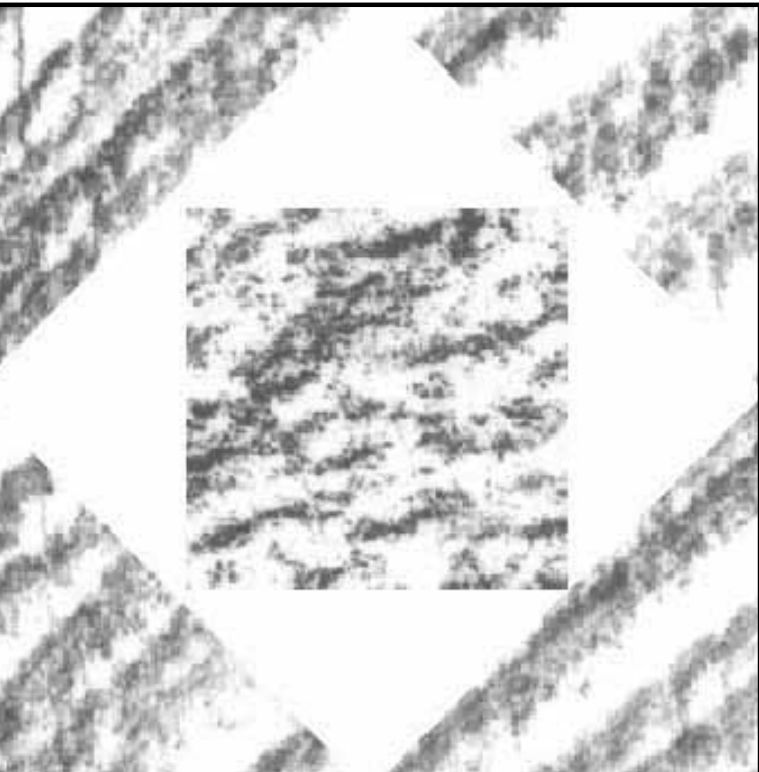
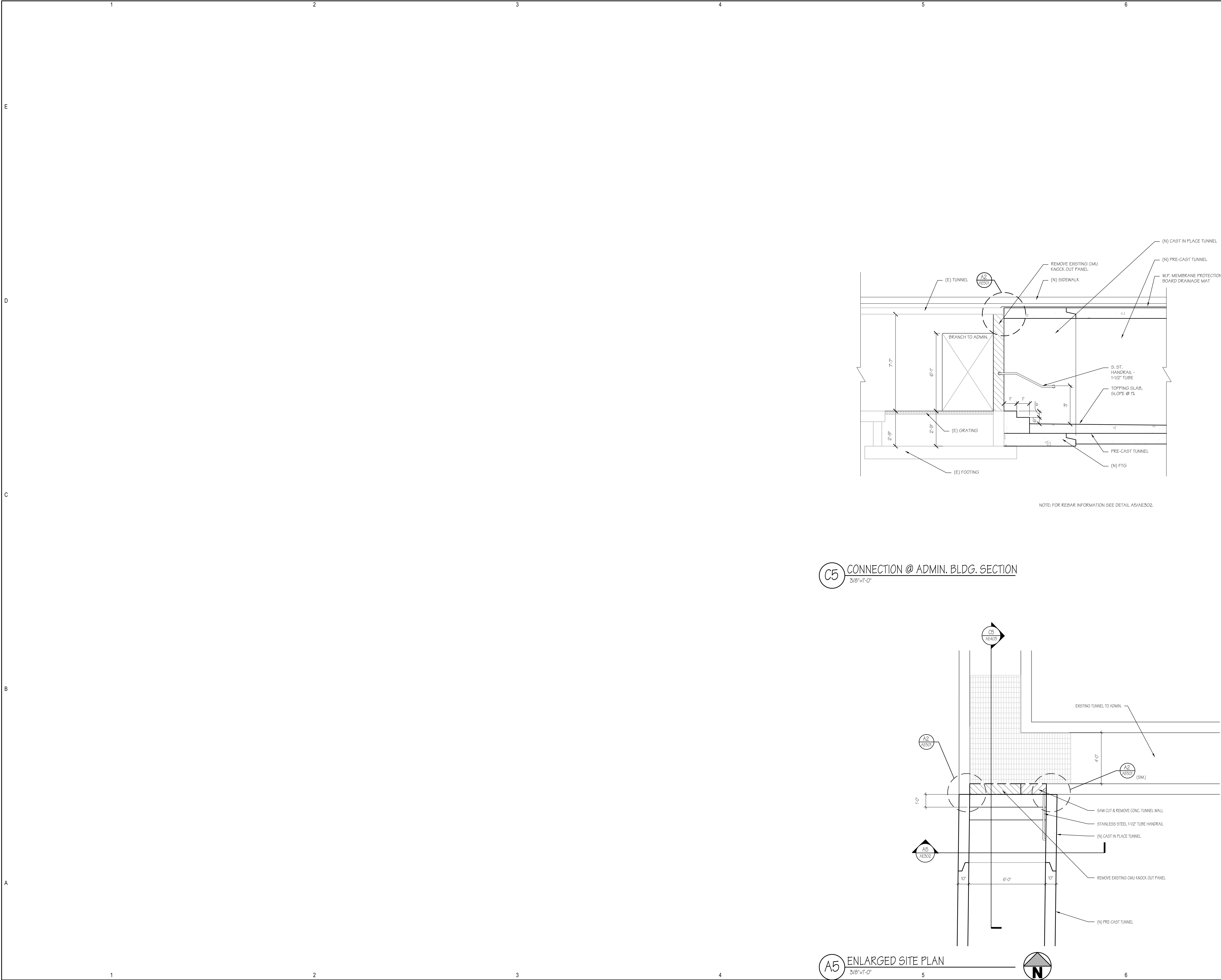
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SHEET TITLE

ENLARGED PLANS
& SECTIONS

AE402

SHEET 8 OF 27



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SHEET TITLE

ENLARGED PLANS
& SECTIONS

AE403

SHEET 9 OF 27

LEGEND of SYMBOLS

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	EXISTING TUNNEL		NEW IRRIGATION HEADS & LATERAL LINES REQUIRED IN THESE AREAS.
	REMOVE EXISTING TREES - 54		Pyrus calleryana 'Redspire' - Redspire Flowering Pear 2" CAL. B&B
			Gleditsia t. 'Shademaster' Shademaster Honeylocust 2" CAL. B&B
			Ulmus parvifolia Lace Bark Elm 2" CAL. B&B
			Zelkova s. 'Green Vase' Green Vase Zelkova 2" CAL. B&B
	EXISTING LIGHT POLES		
	EXISTING TREES TO REMAIN		
	EX. QUICK COUPLER		
	EX. CONTROL WIRES		NEW CONTROL WIRES - 14 GA, DIRECT BURIAL
	EX. MAINLINE TO REMAIN		NEW PVC SCH 40 PIPE - MAINLINE (SIZED AS SHOWN)
	REMOVE EX. GATE VALVES		NEW GATE VALVE - SAME SIZE AS MAINLINE
	REMOVE EX. CONTROL WIRES		CUT EXISTING PIPE OR CONTROL WIRES
	REMOVE EX. MAINLINE		NEW 10" ROUND VALVE BOX (JUNCTION BOX) JUNCTION BOX FOR WIRE SPLICES
	EX. CONTROL VALVES TO BE REMOVED		NEW RAINBIRD PESB SERIES 2" ELEC. VALVE
	EX. CONTROLLERS OR CCU TO REMAIN		NEW MANUAL DRAIN AS PER DETAIL
	EX. DRAIN		NEW PVC SCH 40 SLEEVE - SIZE AS NOTED
	EX. CONTROL VALVES TO REMAIN		
	EX. LATERAL LINES TO REMAIN (SHRUB AREA)		
	EX. LATERAL LINES TO REMAIN (LAWN AREA)		
	EX. LATERAL LINES TO BE REMOVED (SHRUB AREA)		
	EX. LATERAL LINES TO BE REMOVED (LAWN AREA)		

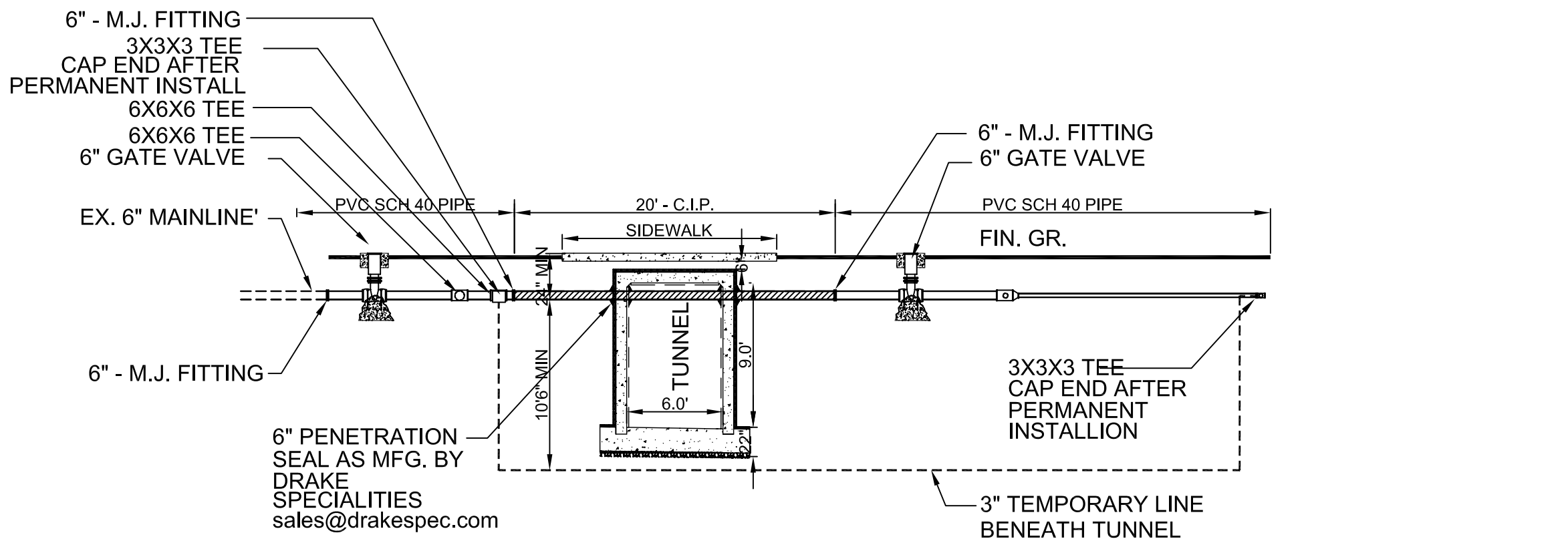
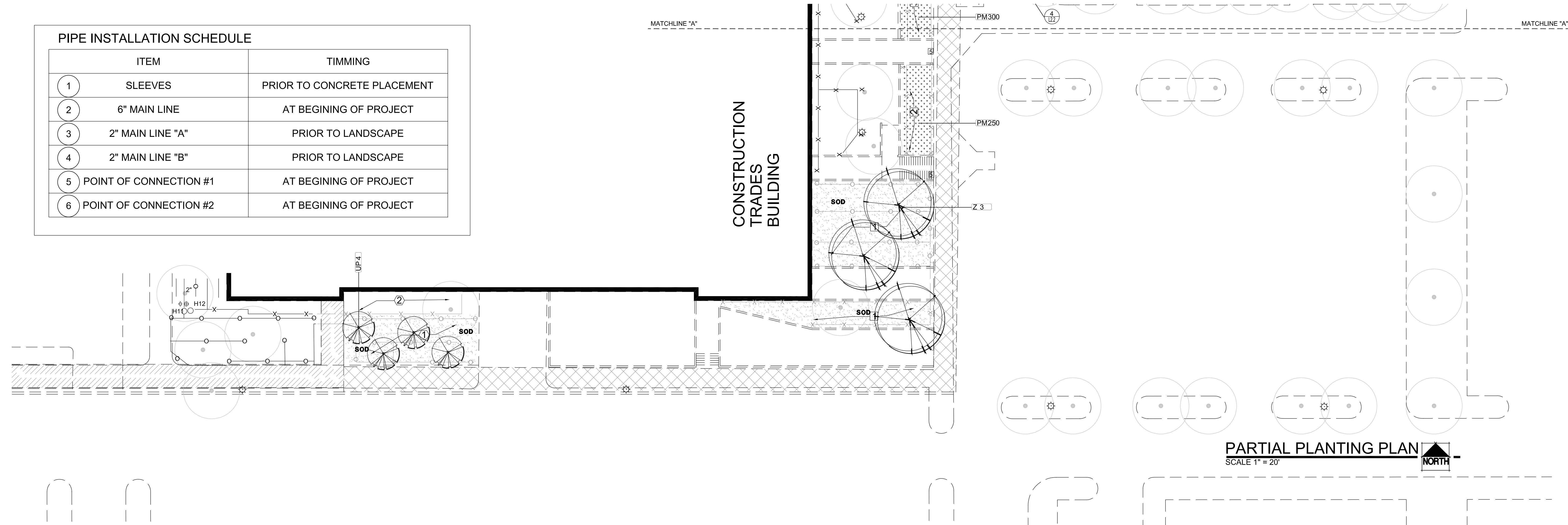
NOTES

- NEW LATERAL LINES & HEADS REQUIRED - RAINBIRD - 4" POP-UP W/ 15' NOZZLES
- NEW LATERAL LINES & HEADS REQUIRED - RAINBIRD - 12" POP-UP
- NEW LATERAL LINES & HEADS REQUIRED - RAINBIRD - R-50 HEADS (FULL & PC)
- NEW 8" PVC SCH40 SLEEVE
- NEW 4" PVC SCH40 SLEEVE

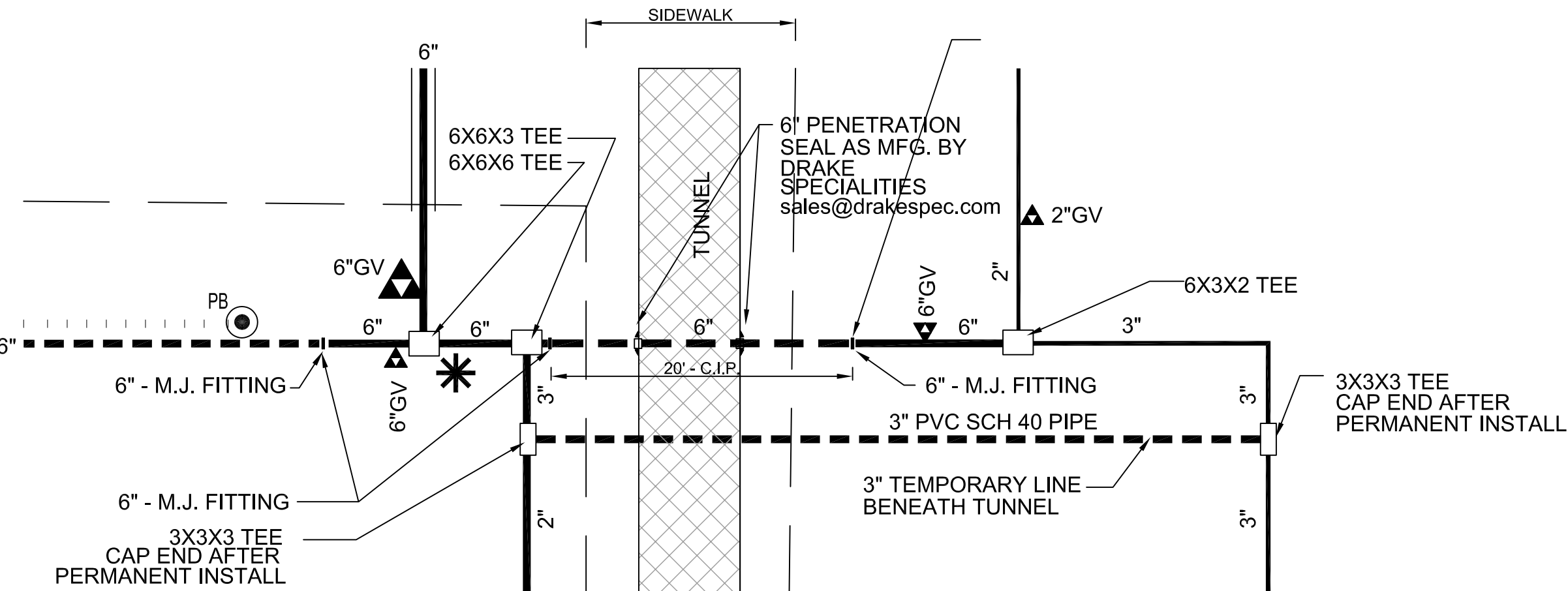
PLANTING SCHEDULE

	BOTANICAL NAME	COMMON NAME	SIZE
PM	PERENNIAL MIX		
	20% ACHILLEA 'SUMMER PASTELS'	SUMMER PASTELS YARROW (24" - 30" O.C.)	4" POTS
	20% ALYSSUM SAXATILE COMPACTUM	BASKET OF GOLD (12" O.C.)	4" POTS
	10% ECHINACEA PURPUREA 'BRAVADO'	PURPLE CONEFLOWER (24" O.C.)	4" POTS
	10% GAILLARDIA 'GOBLIN'	GOBLIN BLANKET FLOWER (12" - 15" O.C.)	4" POTS
	20% HEMEROCALLIS	MIX OF DAYLILIES (24" - 30" O.C.)	4" POTS
	20% GERANIUM 'VISCOSISSUM'	HARDY GERANIUM (12" - 15" O.C.)	4" POTS

PIPE INSTALLATION SCHEDULE		
ITEM	TIMMING	
1	SLEEVES	PRIOR TO CONCRETE PLACEMENT
2	6" MAIN LINE	AT BEGINING OF PROJECT
3	2" MAIN LINE "A"	PRIOR TO LANDSCAPE
4	2" MAIN LINE "B"	PRIOR TO LANDSCAPE
5	POINT OF CONNECTION #1	AT BEGINING OF PROJECT
6	POINT OF CONNECTION #2	AT BEGINING OF PROJECT



SECTION



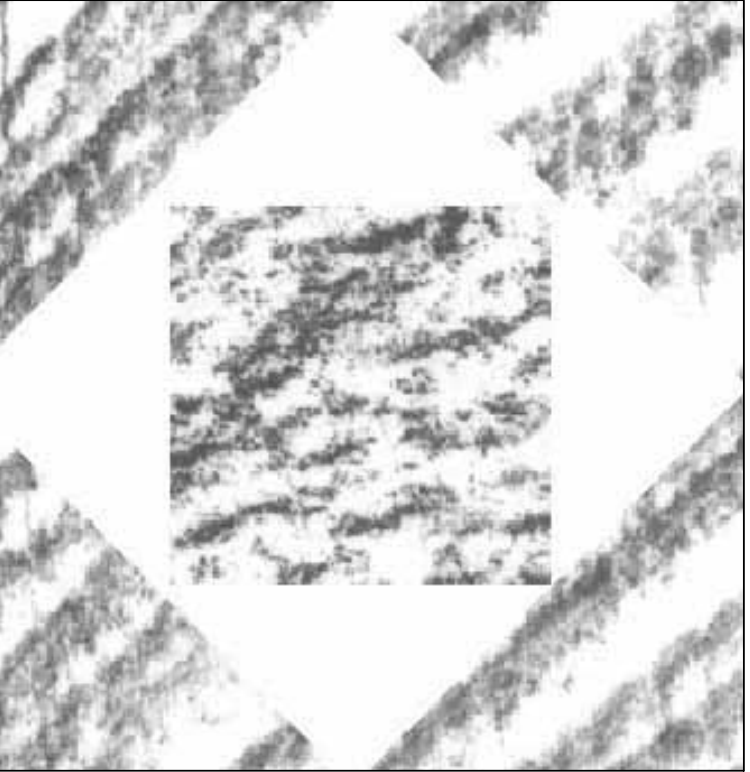
PLAN VIEW

POINT OF CONNECTION
TEMPORARY TUNNEL CROSSING

SCALE 1/8" = 1'-0"

1
L1.1

2



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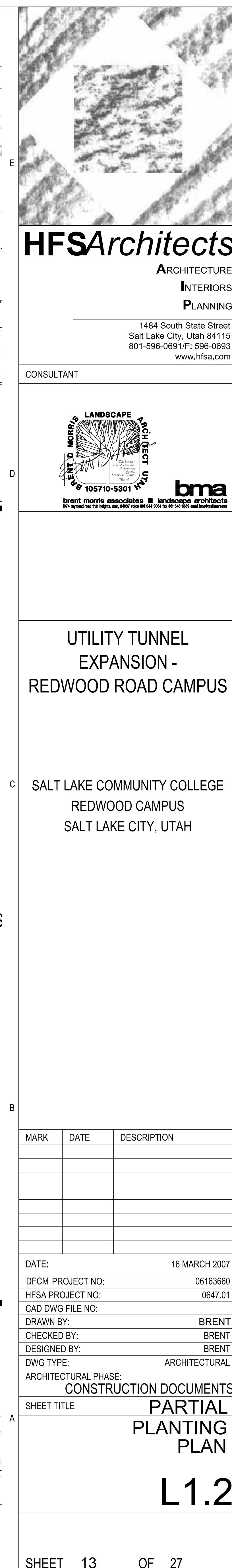
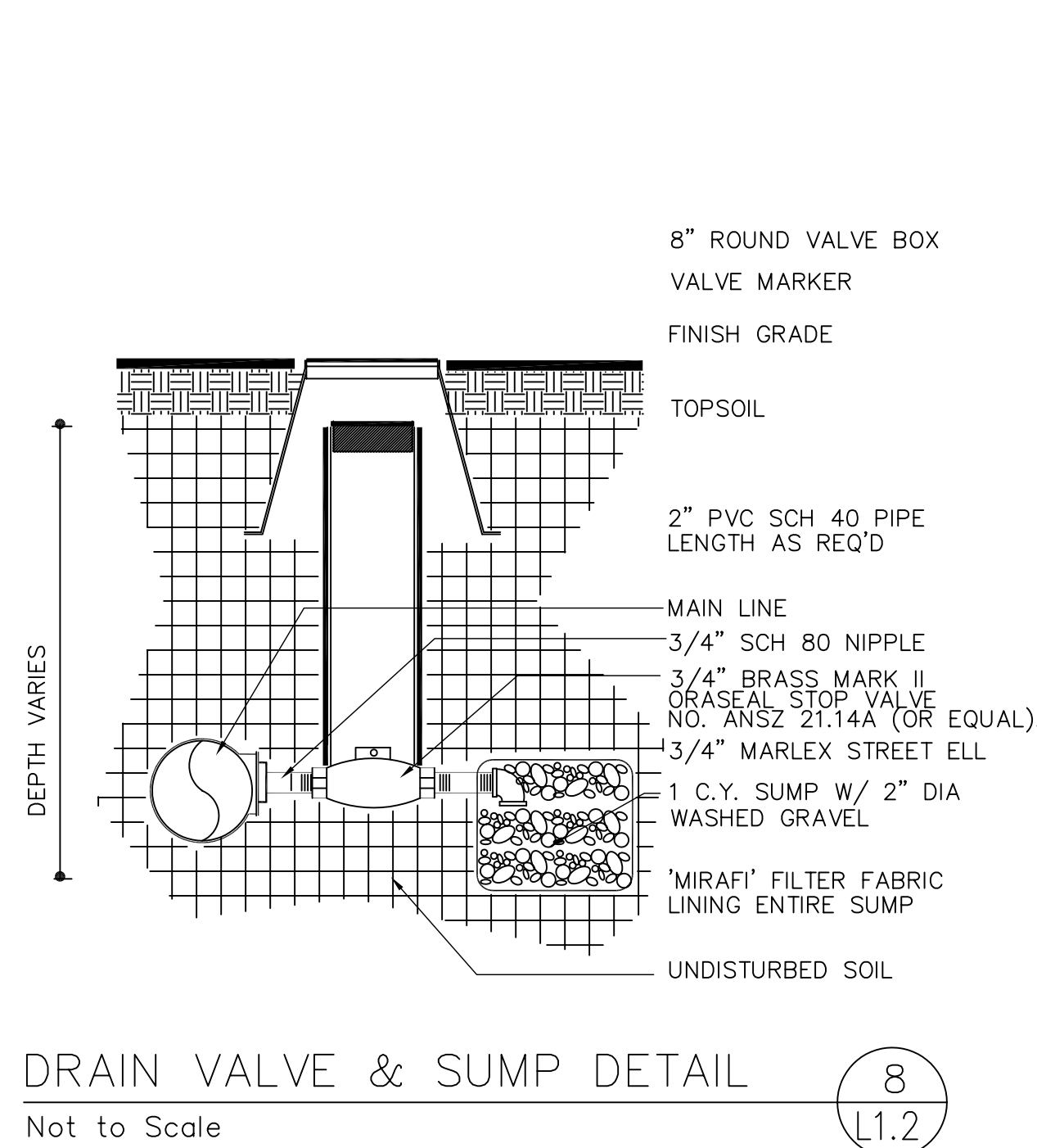
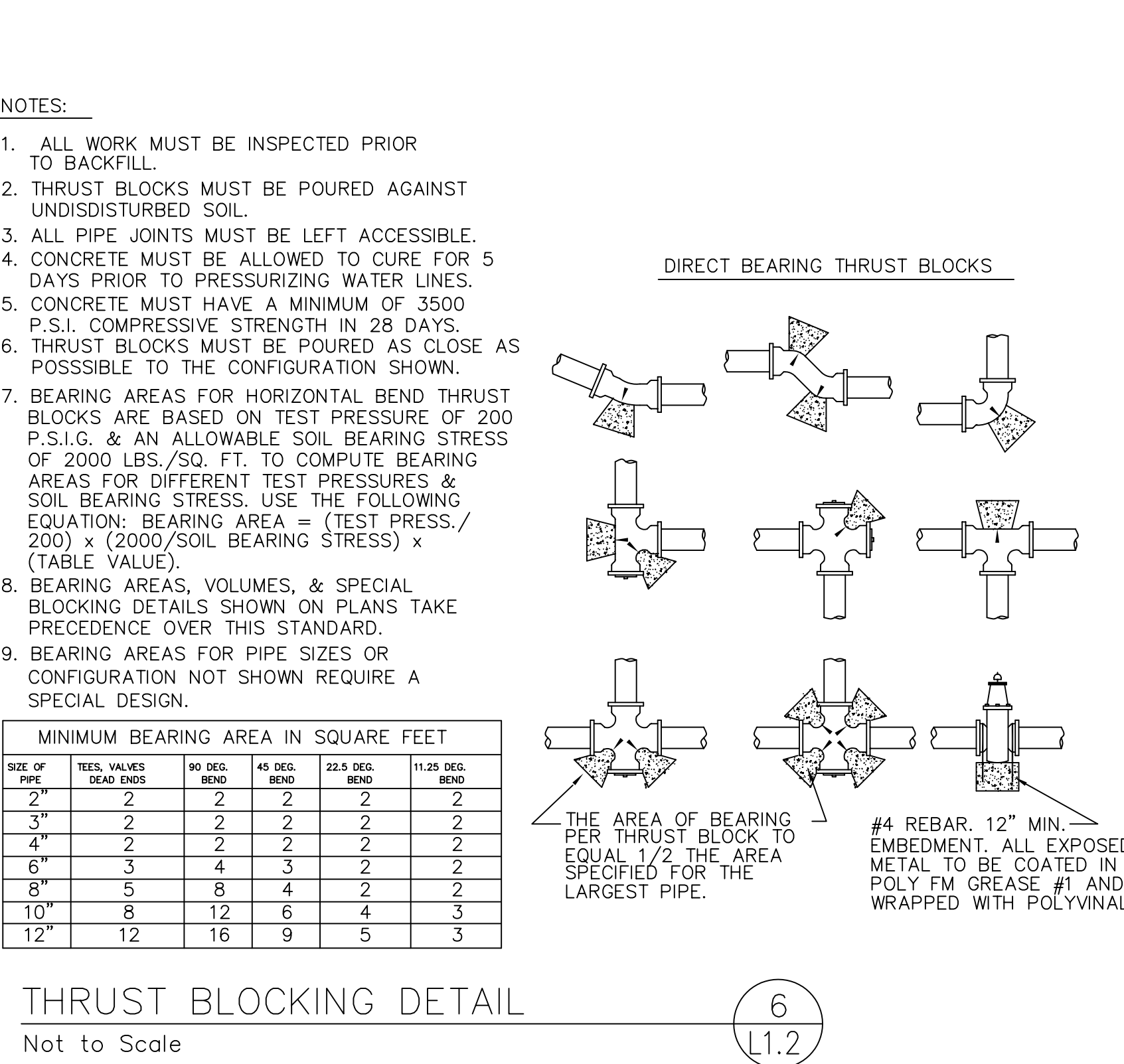
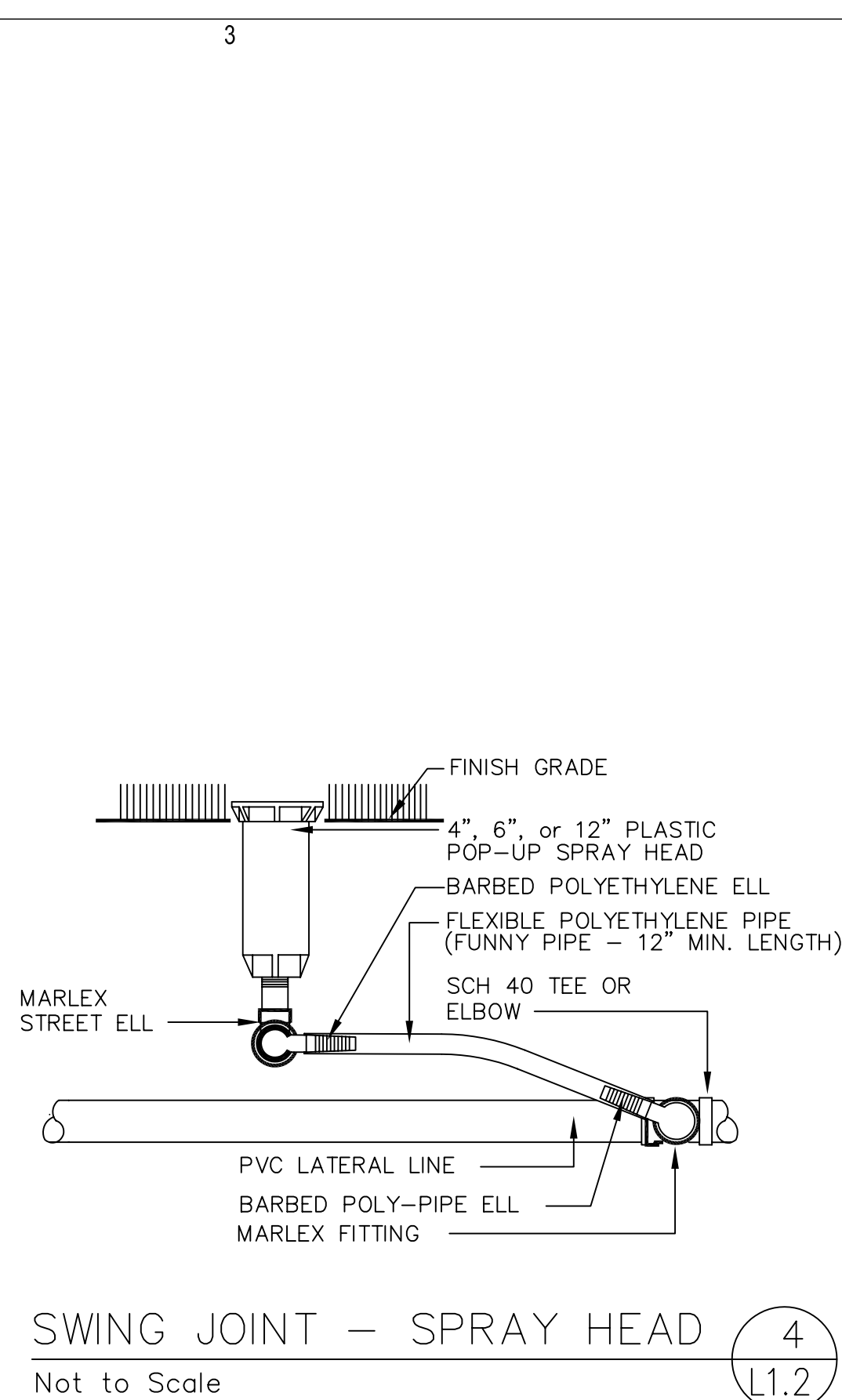
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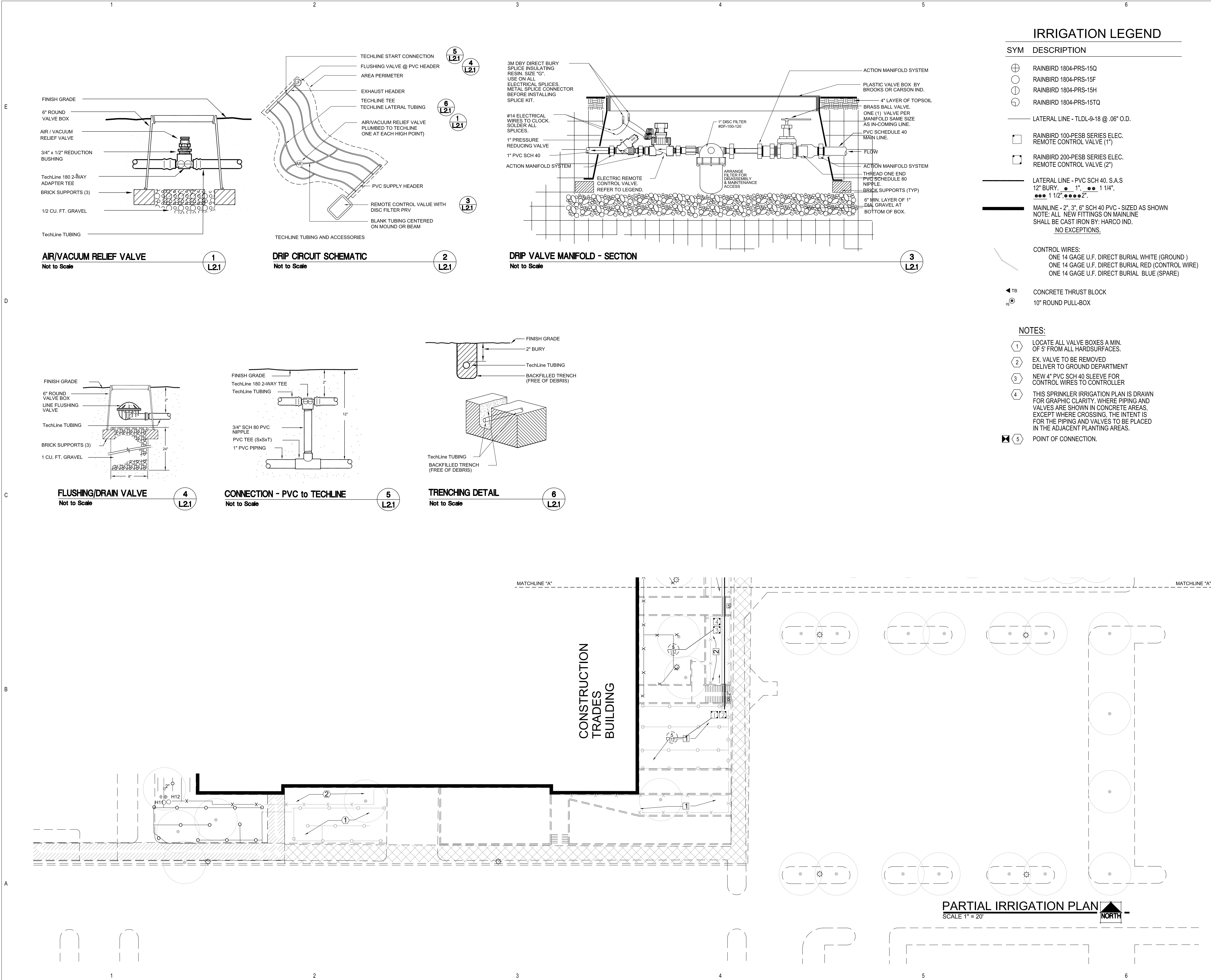
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DFCM PROJECT NO:	06163660
HFSa PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	BRENT
CHECKED BY:	BRENT
DESIGNED BY:	BRENT
DWG TYPE:	LANDSCAPE

ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS

SHEET TITLE
**PARTIAL
PLANTING
PLAN**

L1.1





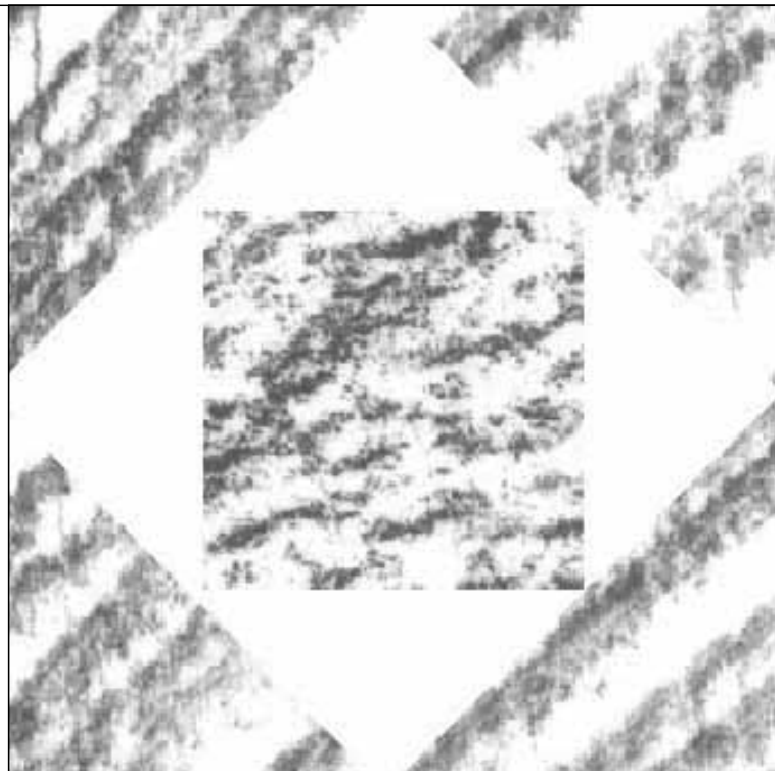
IRRIGATION LEGEND

SYM	DESCRIPTION
⊕	RAINBIRD 1804-PRS-15Q
○	RAINBIRD 1804-PRS-15F
⊖	RAINBIRD 1804-PRS-15H
⊙	RAINBIRD 1804-PRS-15TQ
—	LATERAL LINE - TLDL-9-18 @ .06" O.D.
□	RAINBIRD 100-PESB SERIES ELEC. REMOTE CONTROL VALVE (1")
□	RAINBIRD 200-PESB SERIES ELEC. REMOTE CONTROL VALVE (2")
—	LATERAL LINE - PVC SCH 40, S.A.S 12" BURY. ● 1" ●● 1 1/4", ●●● 1 1/2", ●●●● 2"
—	MAINLINE - 2", 3", 6" SCH 40 PVC - SIZED AS SHOWN NOTE: ALL NEW FITTINGS ON MAINLINE SHALL BE CAST IRON BY: HARCO IND. NO EXCEPTIONS.
—	CONTROL WIRES: ONE 14 GAGE U.F. DIRECT BURIAL WHITE (GROUND) ONE 14 GAGE U.F. DIRECT BURIAL RED (CONTROL WIRE) ONE 14 GAGE U.F. DIRECT BURIAL BLUE (SPARE)

◀ TB	CONCRETE THRUST BLOCK
⊙	10" ROUND PULL-BOX

NOTES:

- LOCATE ALL VALVE BOXES A MIN. OF 5' FROM ALL HARDSURFACES.
- EX. VALVE TO BE REMOVED DELIVER TO GROUND DEPARTMENT
- NEW 4" PVC SCH 40 SLEEVE FOR CONTROL WIRES TO CONTROLLER
- THIS SPRINKLER IRRIGATION PLAN IS DRAWN FOR GRAPHIC CLARITY. WHERE PIPING AND VALVES ARE SHOWN IN CONCRETE AREAS, EXCEPT WHERE CROSSING, THE INTENT IS FOR THE PIPING AND VALVES TO BE PLACED IN THE ADJACENT PLANTING AREAS.
- POINT OF CONNECTION.



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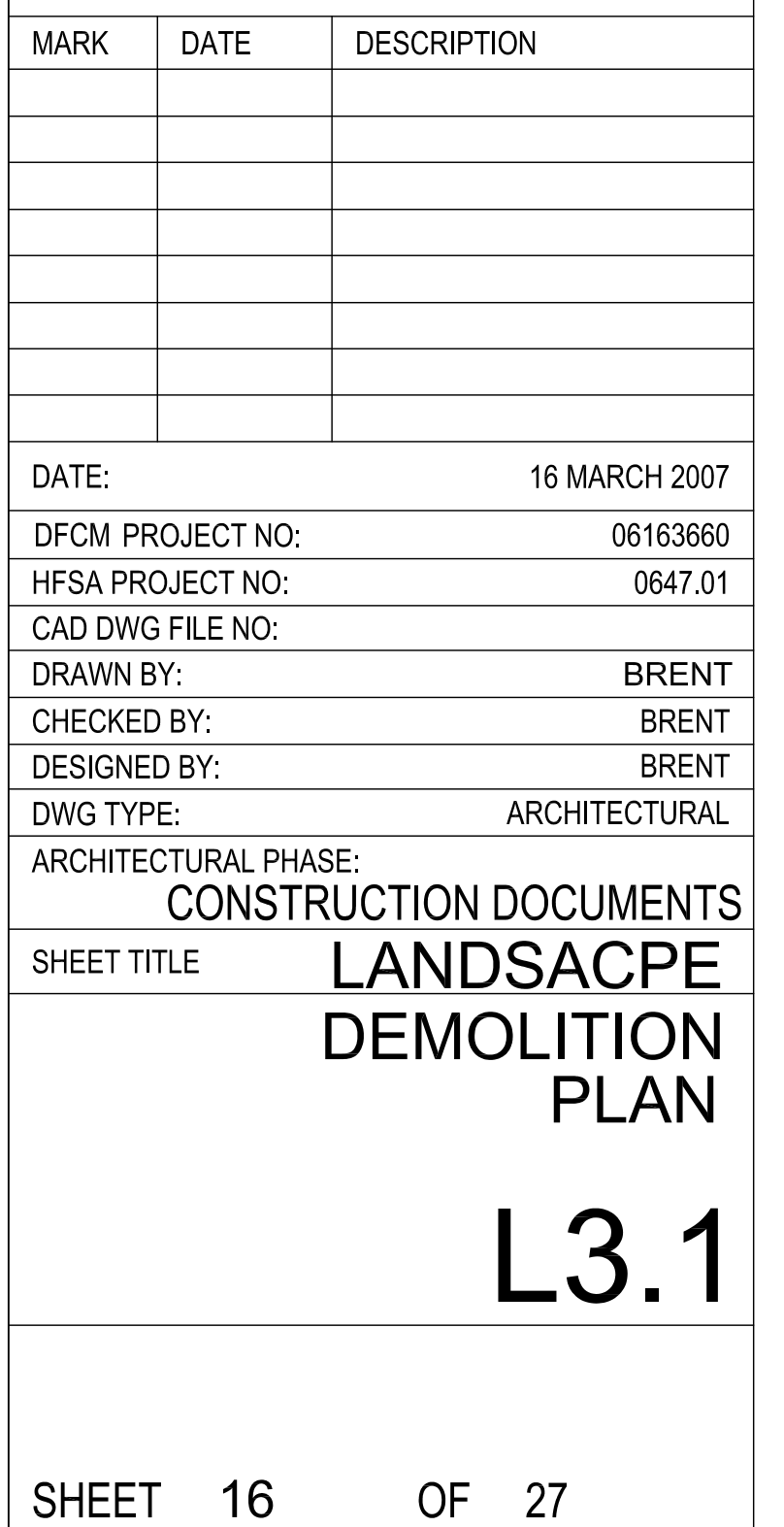
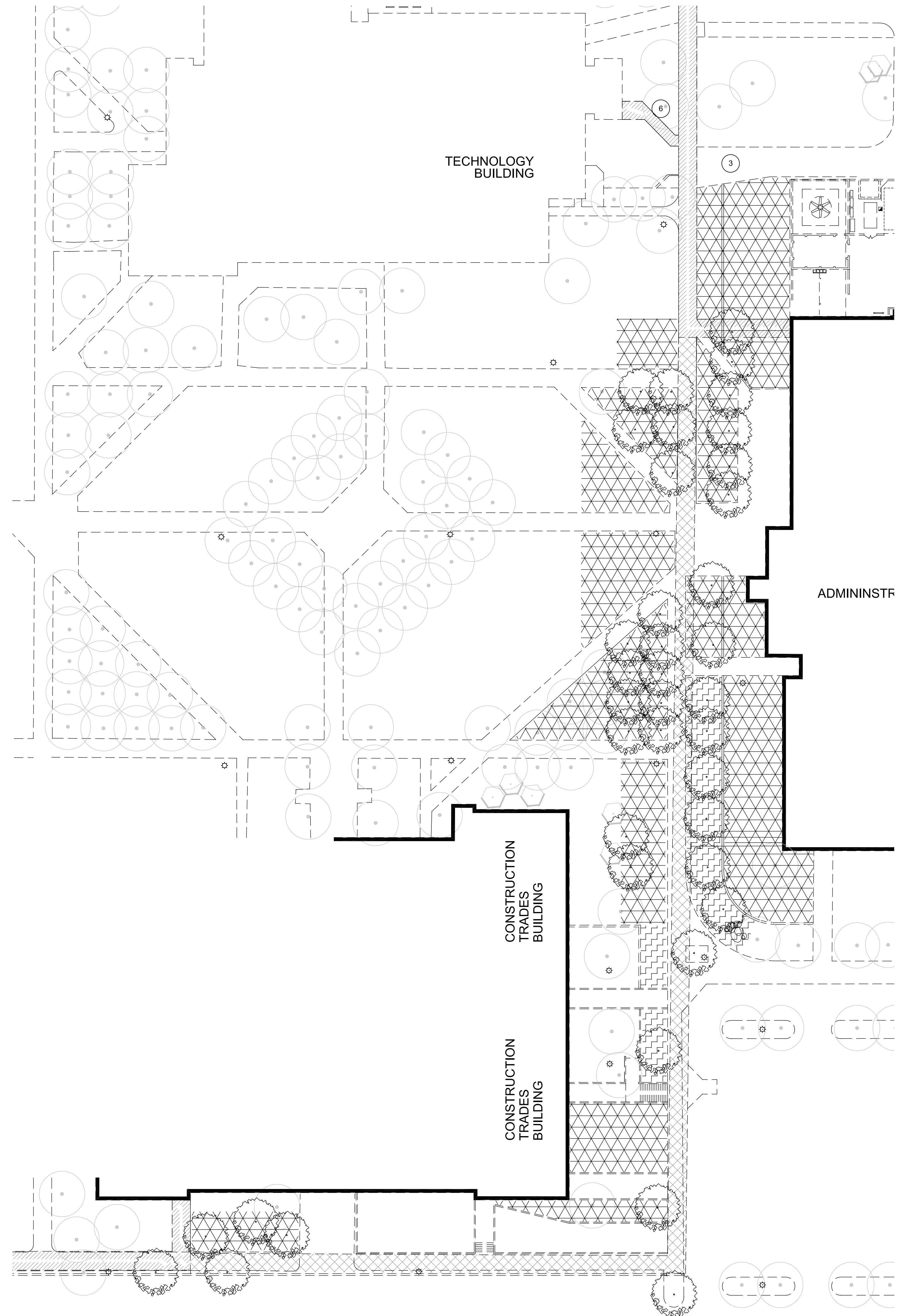
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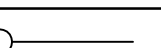
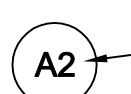

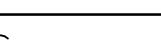
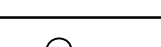


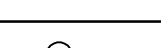
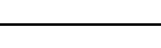

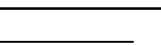


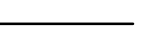

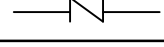
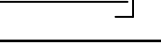
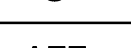
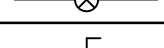
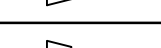
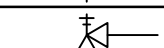
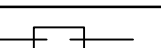

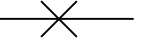
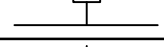
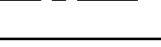
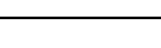
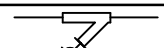

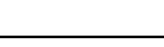
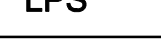
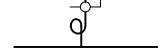


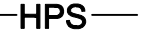

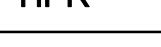




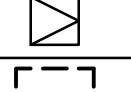


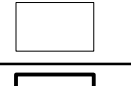



DATE:	16 MARCH 2007
DFCM PROJECT NO:	06163660
HFS PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	BRENT
CHECKED BY:	BRENT
DESIGNED BY:	BRENT
DWG TYPE:	ARCHITECTURAL

ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS

SHEET TITLE
**PARTIAL
IRRIGATION
PLAN**

L2.1



MECHANICAL LEGEND																
SYMBOL		ABR.	DESCRIPTION			SYMBOL		ABR.	DESCRIPTION							
GENERAL TERMINOLOGY						WET SIDE				WET SIDE CONT						
		SECTION LETTER DESIGNATION										PITCH DOWN				
		SECTION DRAWN ON THIS SHEET												ELBOW UP		
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION										ELBOW DOWN				
														TEE UP		
		MECHANICAL EQUIPMENT DESIGNATION										TEE DOWN				
		EQUIPMENT ITEM DESIGNATION												EXISTING PIPING TO BE REMOVED		
		REVISION DESIGNATOR AND NUMBER										EXISTING PIPING TO REMAIN				
		KEY NOTE DESIGNATOR AND NUMBER										NEW PIPING				
		POC	POINT OF CONNECTION									PIPE CAP OR PLUG				
		POR	POINT OF REMOVAL					CBV				CONCENTRIC REDUCER				
AFF		ABOVE FINISHED FLOOR						BV				ECCENTRIC REDUCER				
AP		ACCESS PANEL						PRV				EXPANSION JOINT				
C EL.		CENTER LINE ELEVATION										ANCHOR POINT				
INV. ELEV.		INVERT ELEVATION										CW	CULINARY COLD WATER			
GC		GENERAL CONTRACTOR										HW	CULINARY HOT WATER			
MC		MECHANICAL CONTRACTOR										RECIRCULATED CULINARY HOT WATER				
CC		CONTROL CONTRACTOR										CHWS		CHILLED WATER SUPPLY		
EC		ELECTRICAL CONTRACTOR										CHWR		CHILLED WATER RETURN		
NIC		NOT IN CONTRACT										LPS		LOW PRESSURE STEAM		
NTS		NOT TO SCALE										LPR		LOW PRESSURE STEAM RETURN		
NC		NORMALLY CLOSED										MPS		MEDIUM PRESSURE STEAM		
NO		NORMALLY OPEN										MPR		MEDIUM PRESSURE STEAM RETURN		
SYMBOL		ABR.	DESCRIPTION									HPS		HIGH PRESSURE STEAM		
												HPR		HIGH PRESSURE STEAM RETURN		
AIR SIDE												PC		PUMPED CONDENSATE		
		AP	ACCESS PANEL									IBT		INVERTED BUCHEK STEAM TRAP		
		EXISTING EQUIPMENT TO BE REMOVED										F&T		FLOAT & THERMOSTATIC STEAM TRAP		
		NEW EQUIPMENT												F&T		DIRECTION OF FLOW

GENERAL NOTES:

- G-1** MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETTED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

**D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS
INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES,
AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.**

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

- G-2) ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE BY WRITTEN PROPOSAL TO THE ARCHITECT. CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGES UNTIL WRITTEN APPROVAL IS GIVEN.**
- G-3) CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS AT SITE.**
- G-4) THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SUPPORTS AND PIPING SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR PIPE SUPPORTS ANCHORS ETC.**
- G-5) THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.**
- G-6) THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.**
- G-7) SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.**
- G-8) CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.**
- G-9) ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND SLCC REQUIREMENTS.**
- G-10) THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM. CHEMICAL TREATMENT SHALL BE DONE BY COLLEGE'S WATER TREATMENT SERVICE ORGANIZATION, POWER ENGINEERING.**

MARK	DATE	DESCRIPTION

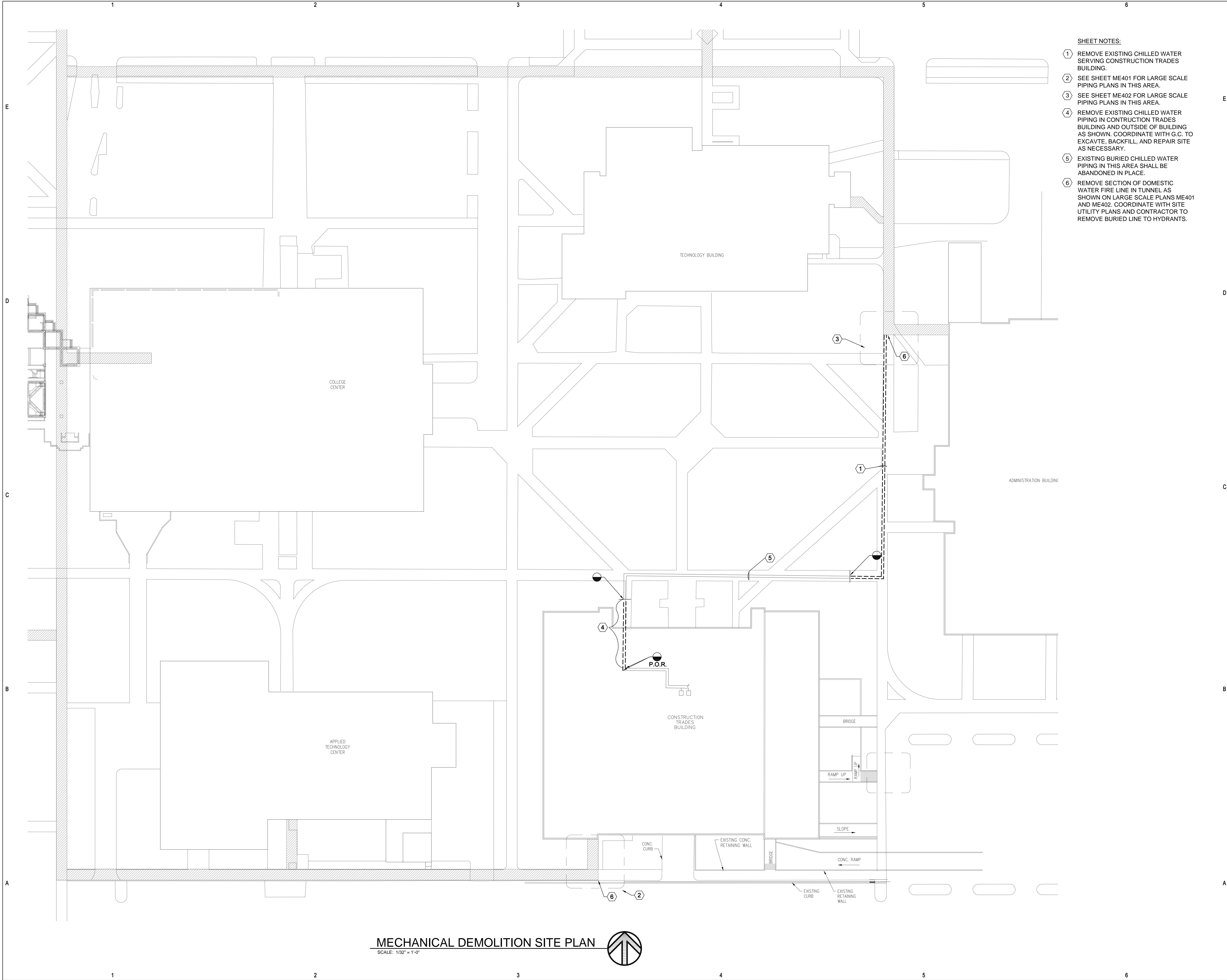
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HFSA PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	
CONSTRUCTION DOCUMENTS	

SHEET TITLE

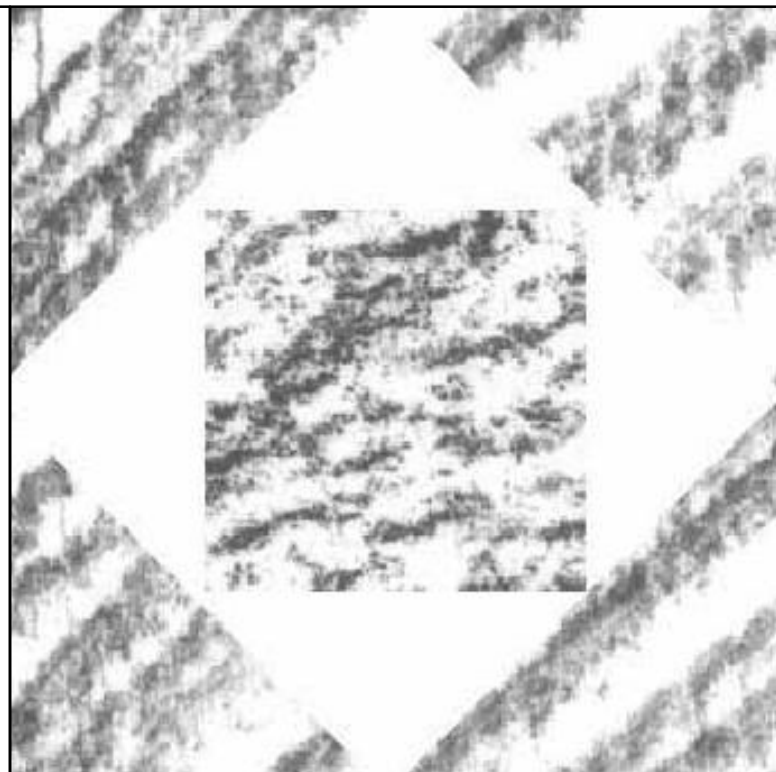
MECHANICAL GENERAL NOTES AND LEGEND

MG001

SHEET 17 OF 27




- SHEET NOTES:**
- 1 REMOVE EXISTING CHILLED WATER SERVING CONSTRUCTION TRADES BUILDING.
 - 2 SEE SHEET ME401 FOR LARGE SCALE PIPING PLANS IN THIS AREA.
 - 3 SEE SHEET ME402 FOR LARGE SCALE PIPING PLANS IN THIS AREA.
 - 4 REMOVE EXISTING CHILLED WATER PIPING IN CONTRUCTION TRADES BUILDING AND OUTSIDE OF BUILDING AS SHOWN. COORDINATE WITH G.C. TO EXCAVTE, BACKFILL, AND REPAIR SITE AS NECESSARY.
 - 5 EXISTING BURIED CHILLED WATER PIPING IN THIS AREA SHALL BE ABANDONED IN PLACE.
 - 6 REMOVE SECTION OF DOMESTIC WATER FIRE LINE IN TUNNEL AS SHOWN ON LARGE SCALE PLANS ME401 AND ME402. COORDINATE WITH SITE UTILITY PLANS AND CONTRACTOR TO REMOVE BURIED LINE TO HYDRANTS.



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MARK	DATE	DESCRIPTION

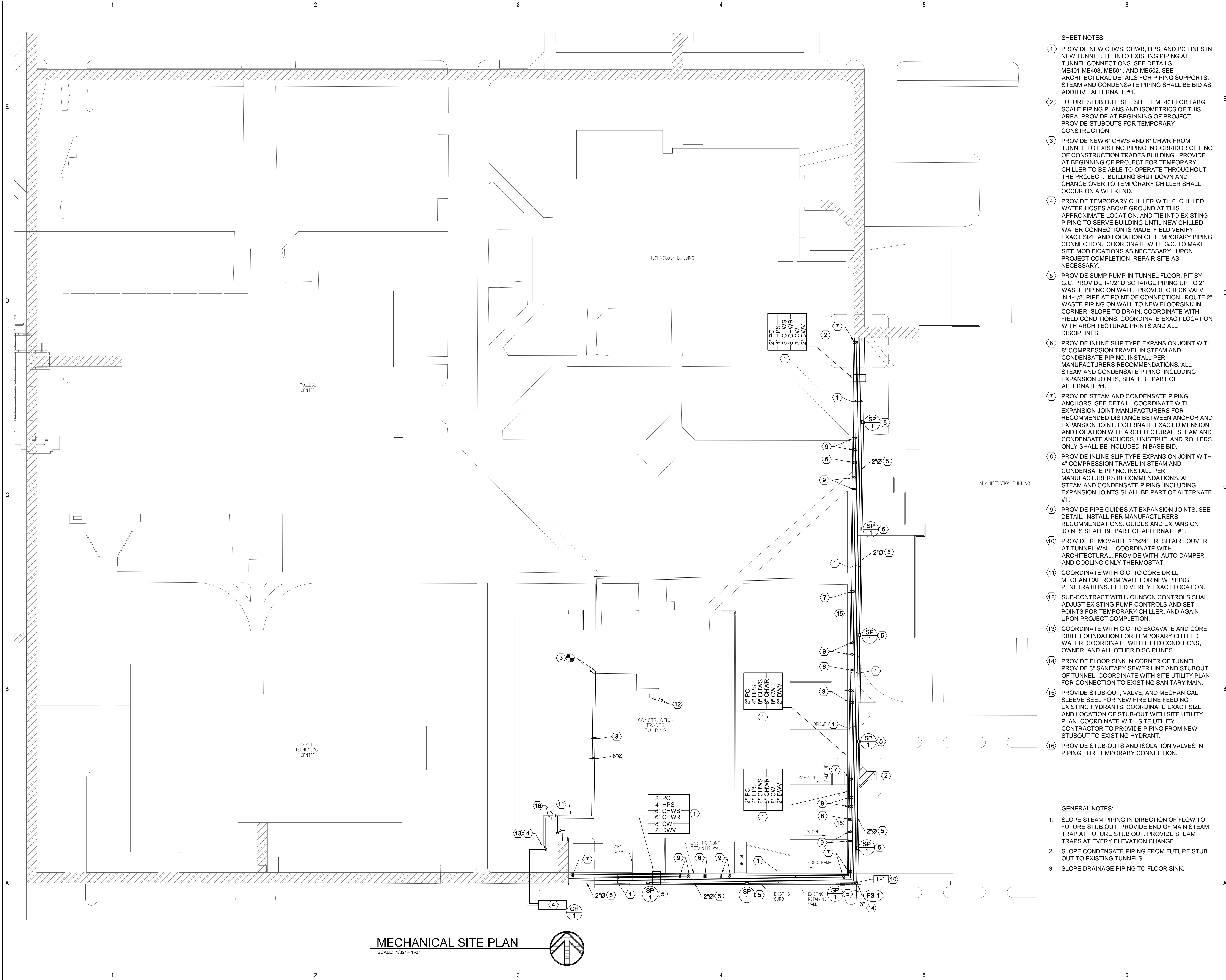
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HFSA PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

**MECHANICAL
DEMOLITION SITE
PLAN**

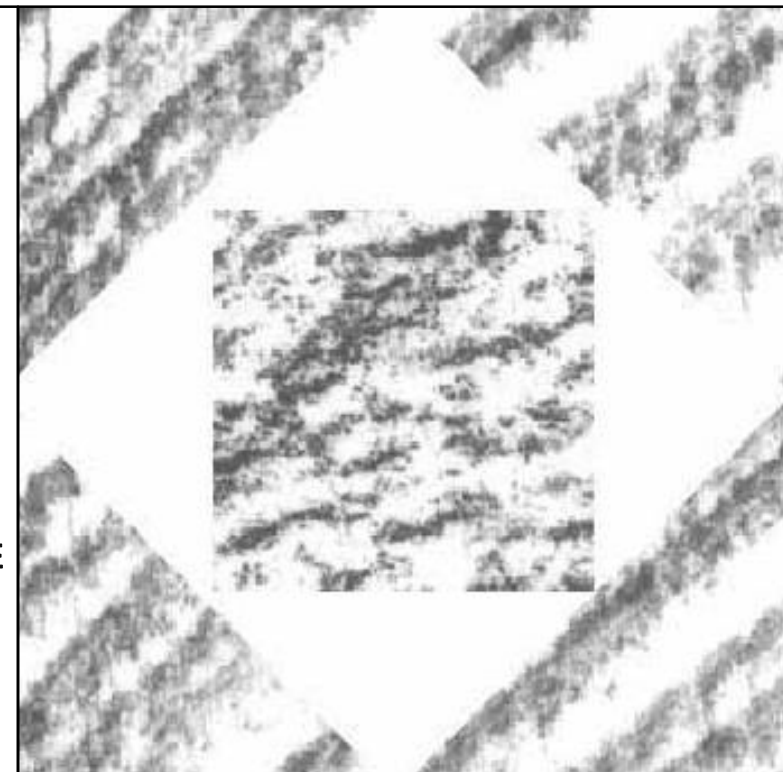
MD101

SHEET 18 OF 27



- SHEET NOTES:**
- 1. PROVIDE NEW CHWS, CHWR, HPS, AND PC LINES IN NEW TUNNEL. TIE INTO EXISTING PIPING AT TUNNEL CONNECTIONS. SEE DETAILS ME401, ME403, ME501, AND ME502. SEE ARCHITECTURAL DETAILS FOR PIPING SUPPORTS. STEAM AND CONDENSATE PIPING SHALL BE BID AS ADDITIVE ALTERNATE #1.
 - 2. FUTURE STUB OUT. SEE SHEET ME401 FOR LARGE SCALE PIPING PLANS AND ISOMETRICS OF THIS AREA. PROVIDE AT BEGINNING OF PROJECT. PROVIDE STUBOUTS FOR TEMPORARY CONSTRUCTION.
 - 3. PROVIDE NEW 6" CHWS AND 6" CHWR FROM TUNNEL TO EXISTING PIPING IN CORRIDOR CEILING OF CONSTRUCTION TRADES BUILDING. PROVIDE AT BEGINNING OF PROJECT FOR TEMPORARY CHILLER TO BE ABLE TO OPERATE THROUGHOUT THE PROJECT. BUILDING SHUT DOWN AND CHANGE OVER TO TEMPORARY CHILLER SHALL OCCUR ON A WEEKEND.
 - 4. PROVIDE TEMPORARY CHILLER WITH 6" CHILLED WATER HOSES ABOVE GROUND AT THIS APPROXIMATE LOCATION, AND TIE INTO EXISTING PIPING TO SERVE BUILDING UNTIL NEW CHILLED WATER CONNECTION IS MADE. FIELD VERIFY EXACT SIZE AND LOCATION OF TEMPORARY PIPING CONNECTION. COORDINATE WITH G.C. TO MAKE SITE MODIFICATIONS AS NECESSARY. UPON PROJECT COMPLETION, REPAIR SITE AS NECESSARY.
 - 5. PROVIDE SUMP PUMP IN TUNNEL FLOOR. PIT BY G.C. PROVIDE 1-1/2" DISCHARGE PIPING UP TO 2" WASTE PIPING ON WALL. PROVIDE CHECK VALVE IN 1-1/2" PIPE AT POINT OF CONNECTION. ROUTE 2" WASTE PIPING ON WALL TO NEW FLOORSINK IN CORNER. SLOPE TO DRAIN. COORDINATE WITH FIELD CONDITIONS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PRINTS AND ALL DISCIPLINES.
 - 6. PROVIDE INLINE SLIP TYPE EXPANSION JOINT WITH 8" COMPRESSION TRAVEL IN STEAM AND CONDENSATE PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALL STEAM AND CONDENSATE PIPING, INCLUDING EXPANSION JOINTS, SHALL BE PART OF ALTERNATE #1.
 - 7. PROVIDE STEAM AND CONDENSATE PIPING ANCHORS. SEE DETAIL. COORDINATE WITH EXPANSION JOINT MANUFACTURERS FOR RECOMMENDED DISTANCE BETWEEN ANCHOR AND EXPANSION JOINT. COORDINATE EXACT DIMENSION AND LOCATION WITH ARCHITECTURAL. STEAM AND CONDENSATE ANCHORS, UNISTRUT, AND ROLLERS ONLY SHALL BE INCLUDED IN BASE BID.
 - 8. PROVIDE INLINE SLIP TYPE EXPANSION JOINT WITH 4" COMPRESSION TRAVEL IN STEAM AND CONDENSATE PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALL STEAM AND CONDENSATE PIPING, INCLUDING EXPANSION JOINTS SHALL BE PART OF ALTERNATE #1.
 - 9. PROVIDE PIPE GUIDES AT EXPANSION JOINTS. SEE DETAIL. INSTALL PER MANUFACTURERS RECOMMENDATIONS. GUIDES AND EXPANSION JOINTS SHALL BE PART OF ALTERNATE #1.
 - 10. PROVIDE REMOVABLE 24"x24" FRESH AIR LOUVER AT TUNNEL WALL. COORDINATE WITH ARCHITECTURAL. PROVIDE WITH AUTO DAMPER AND COOLING ONLY THERMOSTAT.
 - 11. COORDINATE WITH G.C. TO CORE DRILL MECHANICAL ROOM WALL FOR NEW PIPING PENETRATIONS. FIELD VERIFY EXACT LOCATION.
 - 12. SUB-CONTRACT WITH JOHNSON CONTROLS SHALL ADJUST EXISTING PUMP CONTROLS AND SET POINTS FOR TEMPORARY CHILLER, AND AGAIN UPON PROJECT COMPLETION.
 - 13. COORDINATE WITH G.C. TO EXCAVATE AND CORE DRILL FOUNDATION FOR TEMPORARY CHILLED WATER. COORDINATE WITH FIELD CONDITIONS, OWNER, AND ALL OTHER DISCIPLINES.
 - 14. PROVIDE FLOOR SINK IN CORNER OF TUNNEL. PROVIDE 3" SANITARY SEWER LINE AND STUBOUT OF TUNNEL. COORDINATE WITH SITE UTILITY PLAN FOR CONNECTION TO EXISTING SANITARY MAIN.
 - 15. PROVIDE STUB-OUT, VALVE, AND MECHANICAL SLEEVE SEAL FOR NEW FIRE LINE FEEDING EXISTING HYDRANTS. COORDINATE EXACT SIZE AND LOCATION OF STUB-OUT WITH SITE UTILITY PLAN. COORDINATE WITH SITE UTILITY CONTRACTOR TO PROVIDE PIPING FROM NEW STUBOUT TO EXISTING HYDRANT.
 - 16. PROVIDE STUB-OUTS AND ISOLATION VALVES IN PIPING FOR TEMPORARY CONNECTION.


- GENERAL NOTES:**
- 1. SLOPE STEAM PIPING IN DIRECTION OF FLOW TO FUTURE STUB OUT. PROVIDE END OF MAIN STEAM TRAP AT FUTURE STUB OUT. PROVIDE STEAM TRAPS AT EVERY ELEVATION CHANGE.
 - 2. SLOPE CONDENSATE PIPING FROM FUTURE STUB OUT TO EXISTING TUNNELS.
 - 3. SLOPE DRAINAGE PIPING TO FLOOR SINK.



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**UTILITY TUNNEL
EXPANSION
REDWOOD ROAD CAMPUS**

SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH

MARK	DATE	DESCRIPTION

DATE: 16 MARCH 2007

PROJECT NO: 06163660

HFSA PROJECT NO: 0647.01

CAD DWG FILE NO:

DRAWN BY: RB

CHECKED BY: SW

DESIGNED BY: WP

DWG TYPE: MECHANICAL

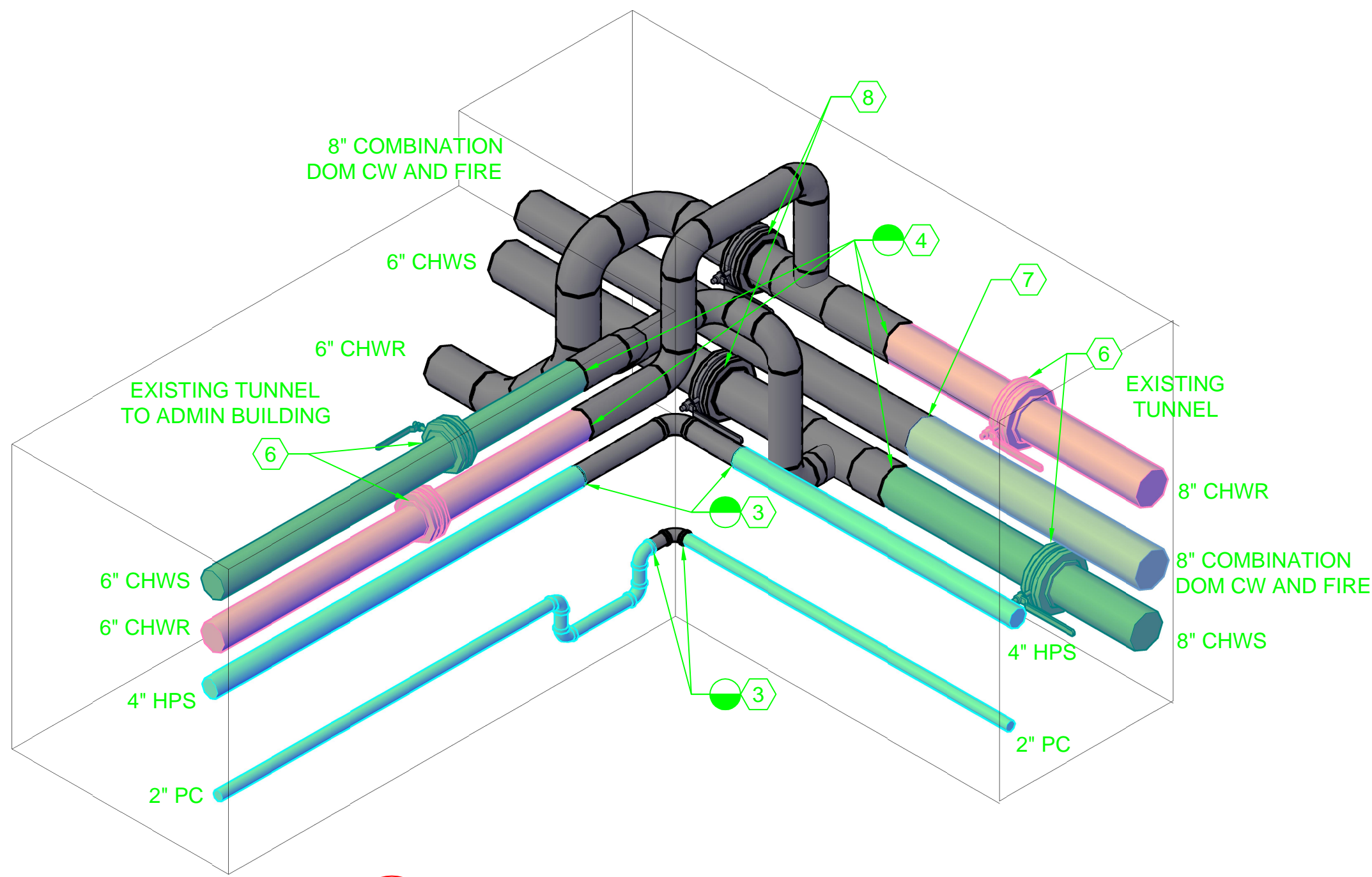
ARCHITECTURAL PHASE:
CONSTRUCTION DOCUMENTS

SHEET TITLE

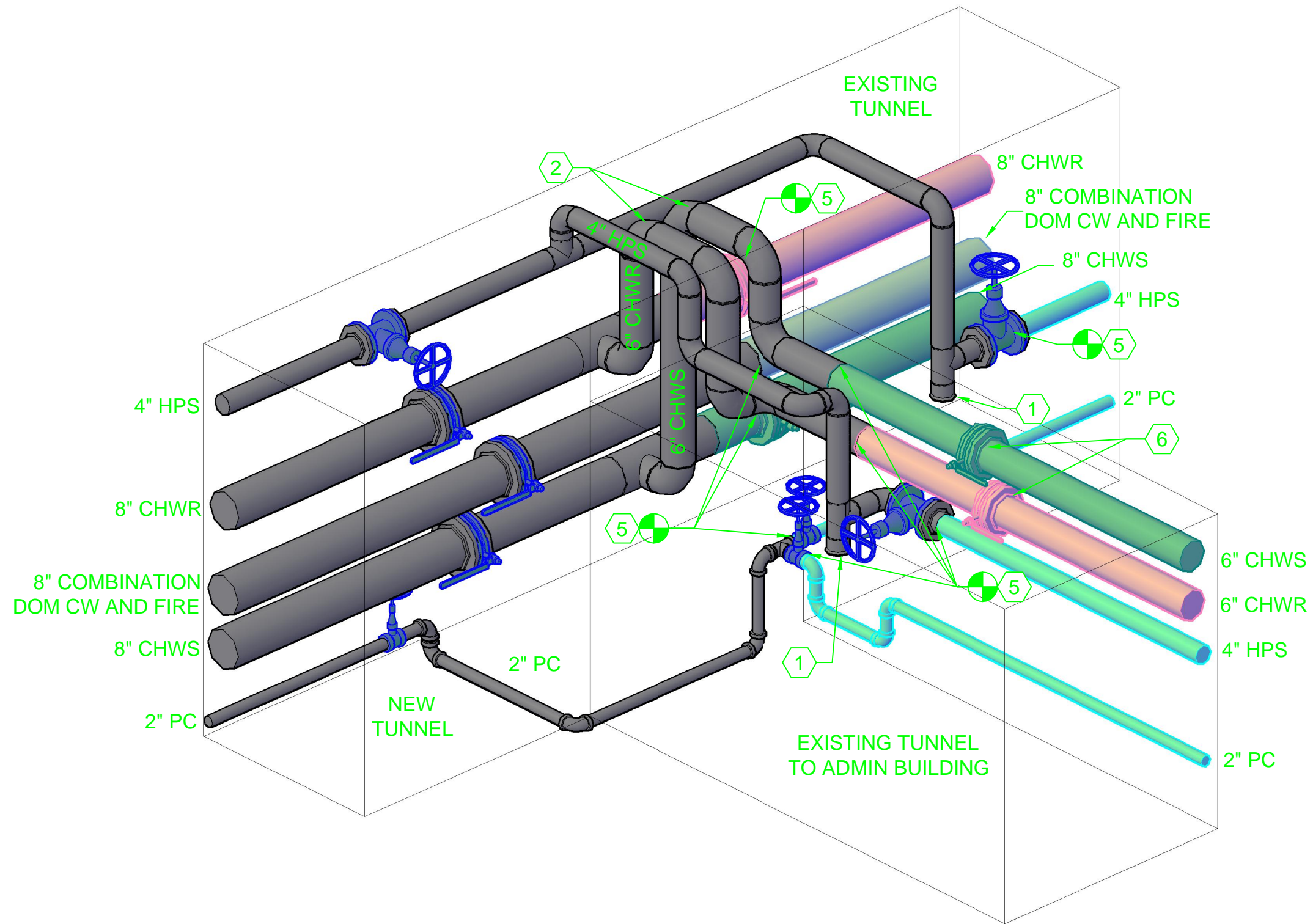
**MECHANICAL
SITE PLAN**

ME101

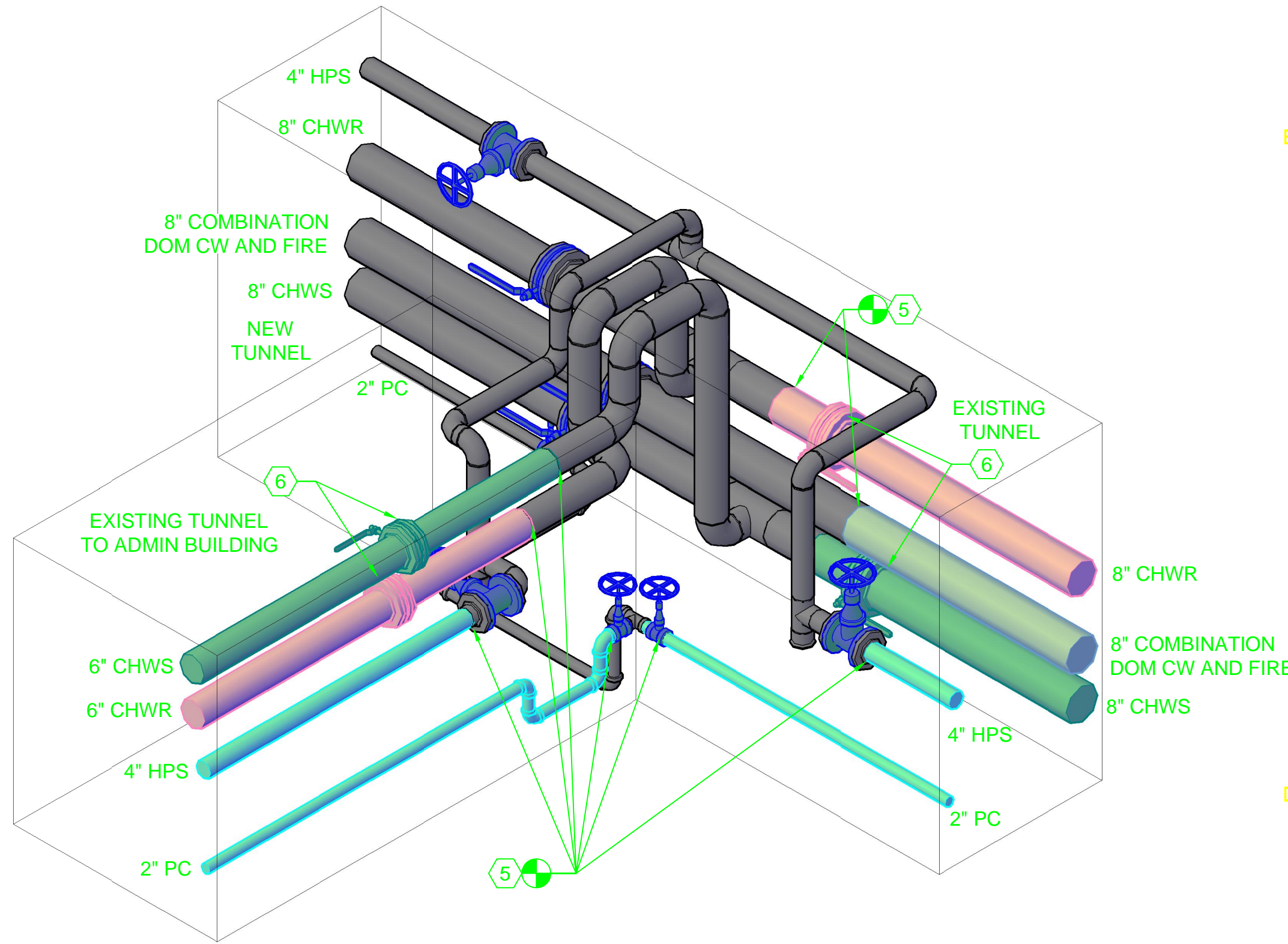
SHEET 19 OF 27



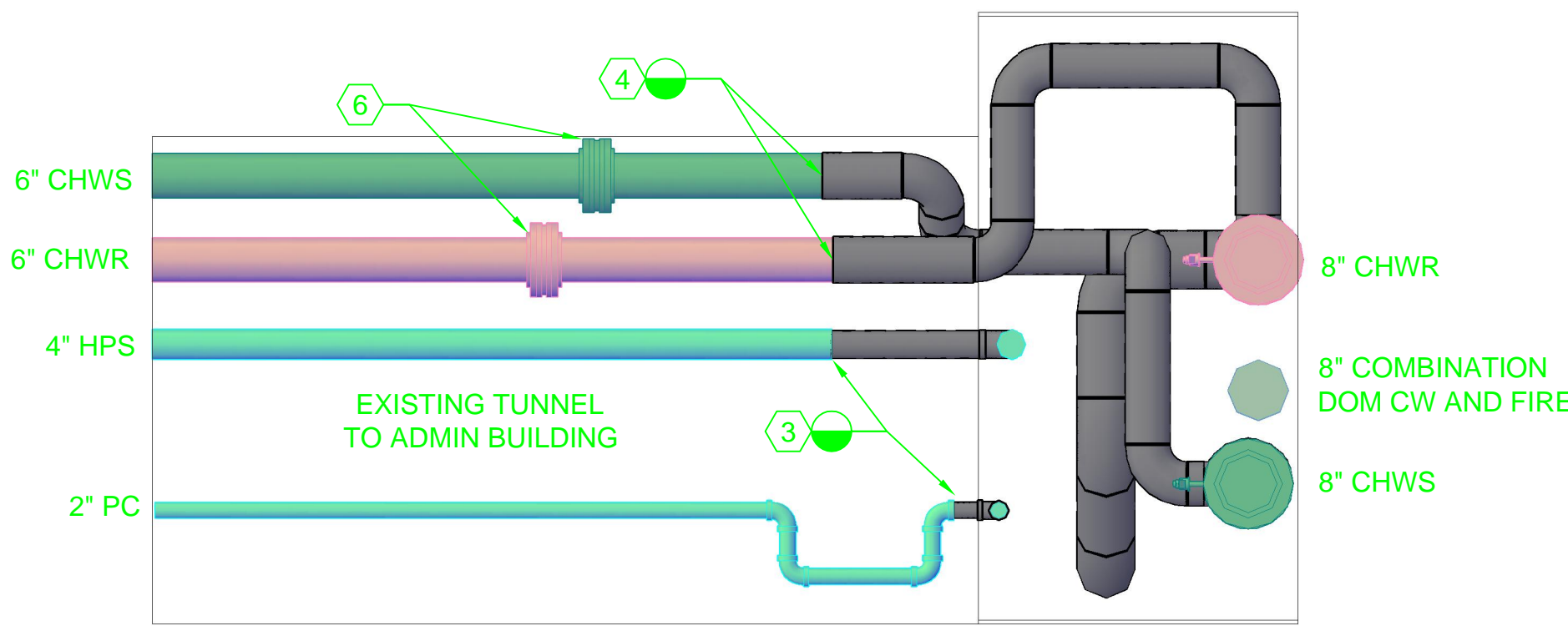
D1 ADMIN BUILDING TUNNEL ISOMETRIC PIPING DEMOLITION PLAN
SCALE: NONE



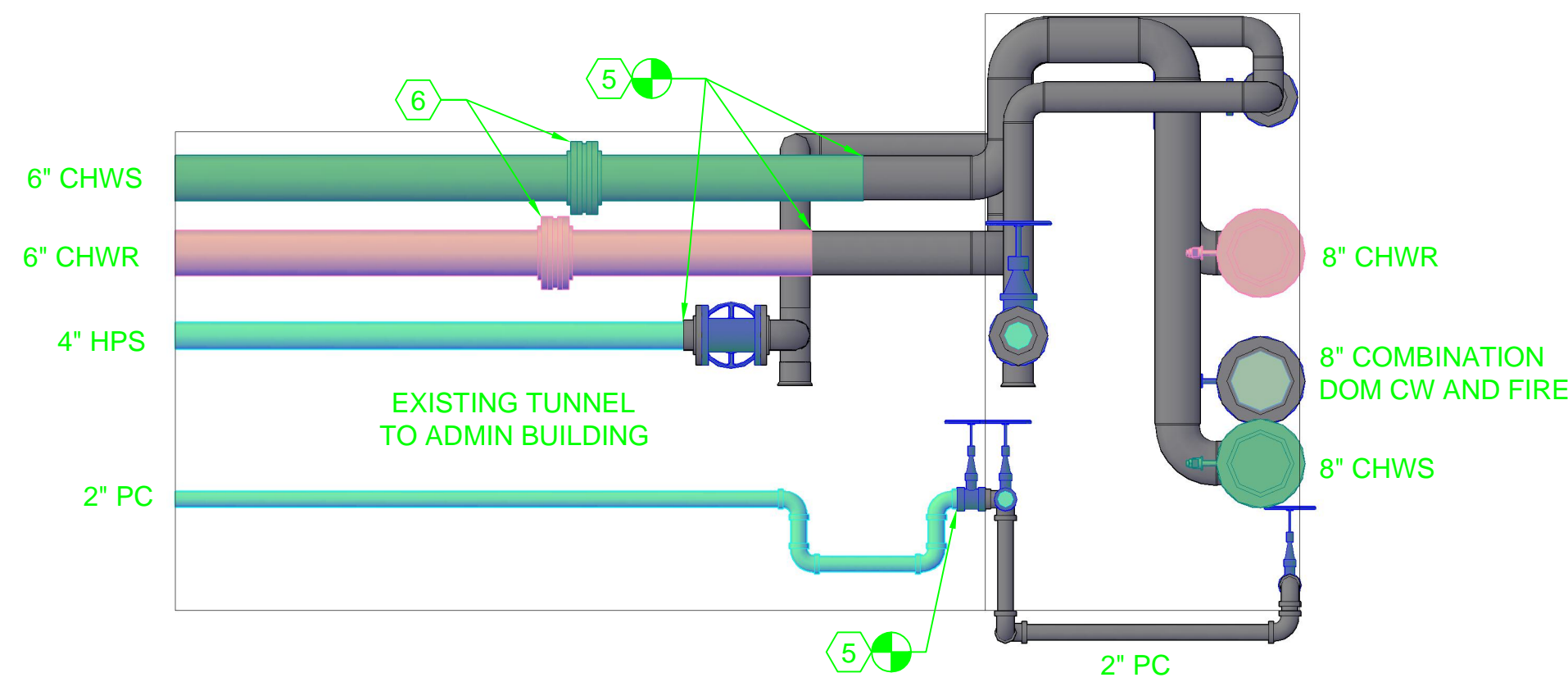
D3 ADMIN BUILDING TUNNEL NEW PIPING ISOMETRIC
SCALE: NONE



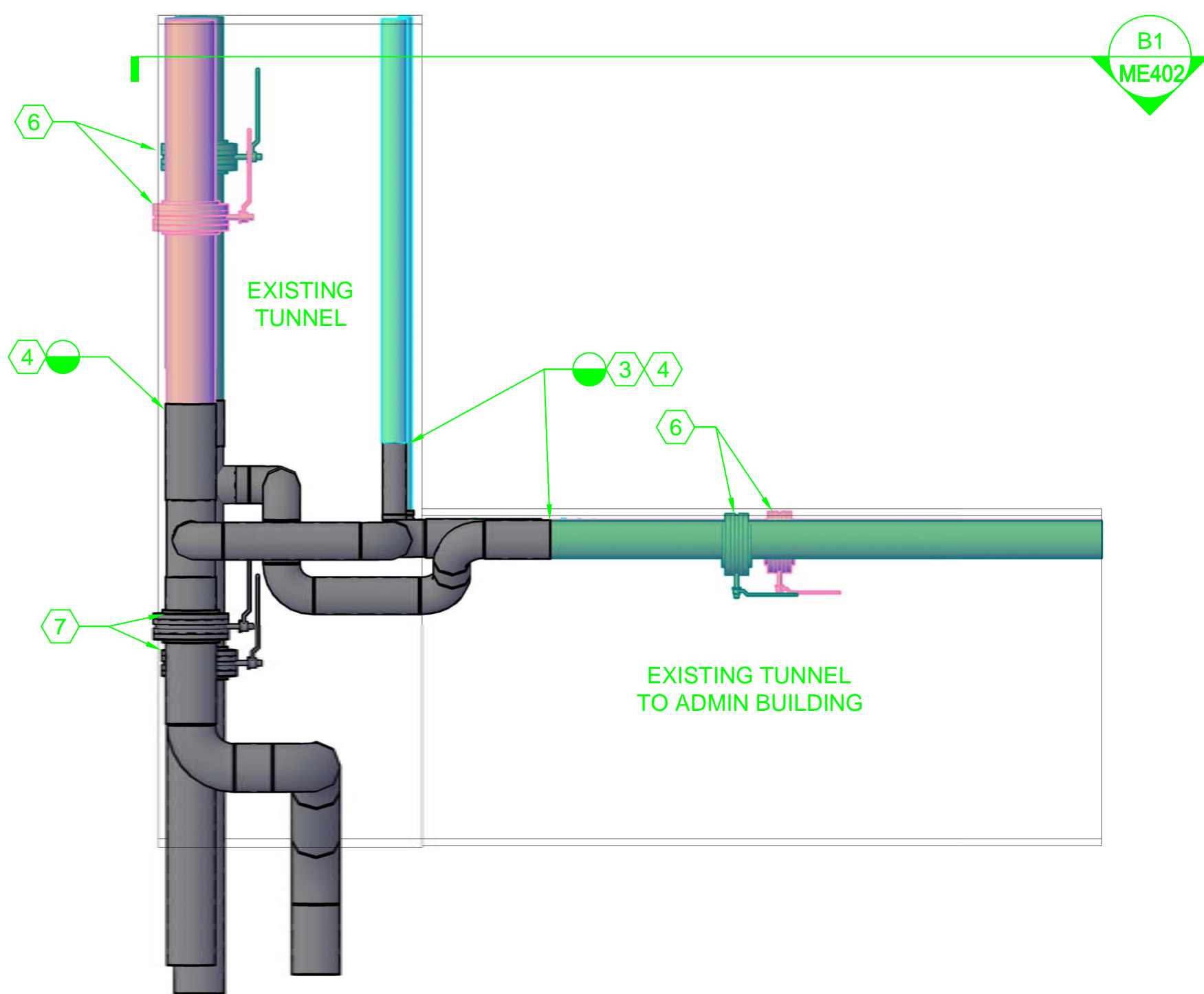
D5 ADMIN BUILDING TUNNEL NEW PIPING ISOMETRIC
SCALE: NONE



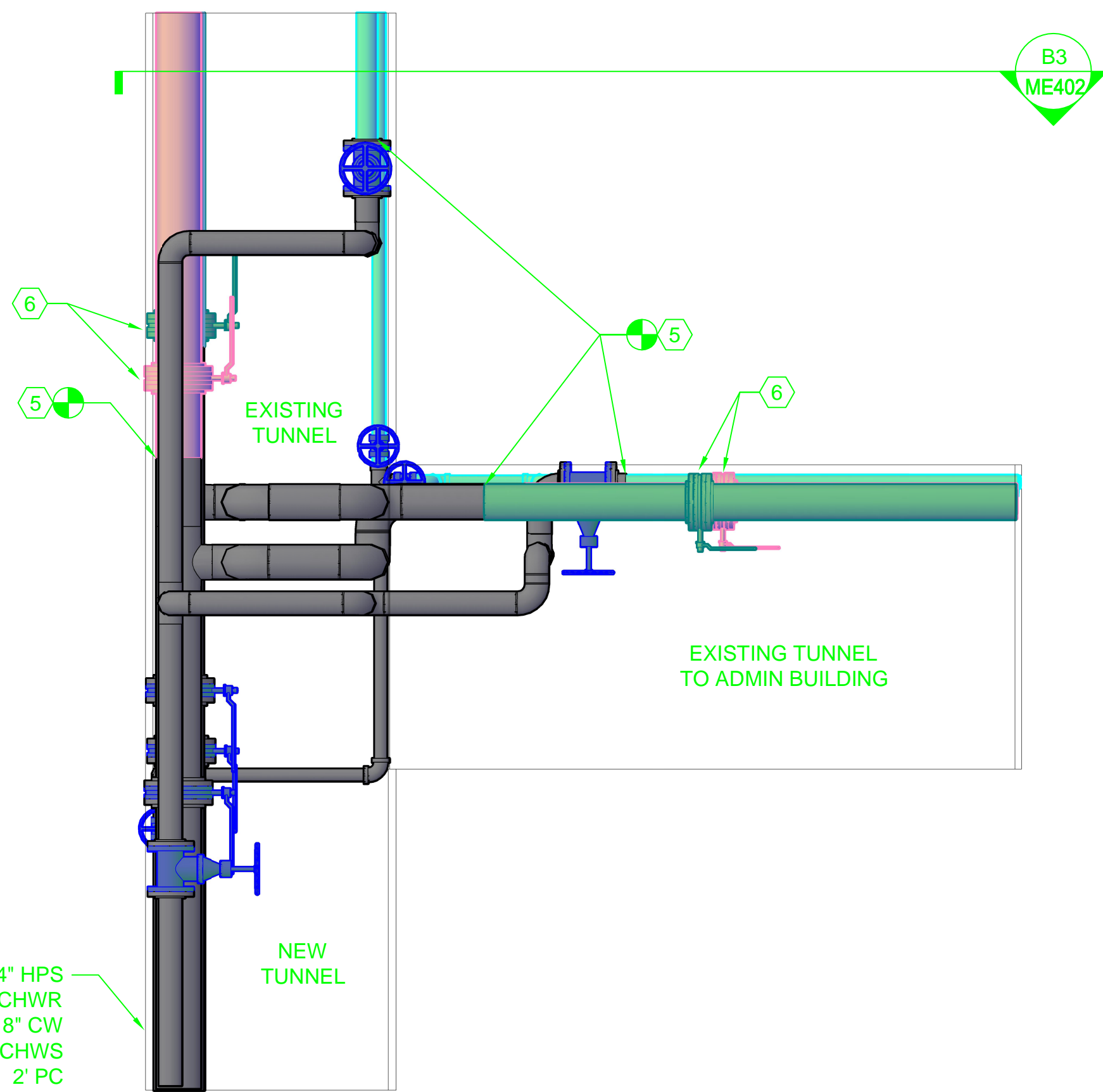
C1 ADMIN BUILDING TUNNEL SECTION PIPING DEMOLITION PLAN
SCALE: 1/2"=1'-0"



C3 ADMIN BUILDING TUNNEL NEW PIPING SECTION
SCALE: 1/2"=1'-0"



A1 ADMIN BUILDING TUNNEL PIPING DEMOLITION PLAN
SCALE: 1/2"=1'-0"



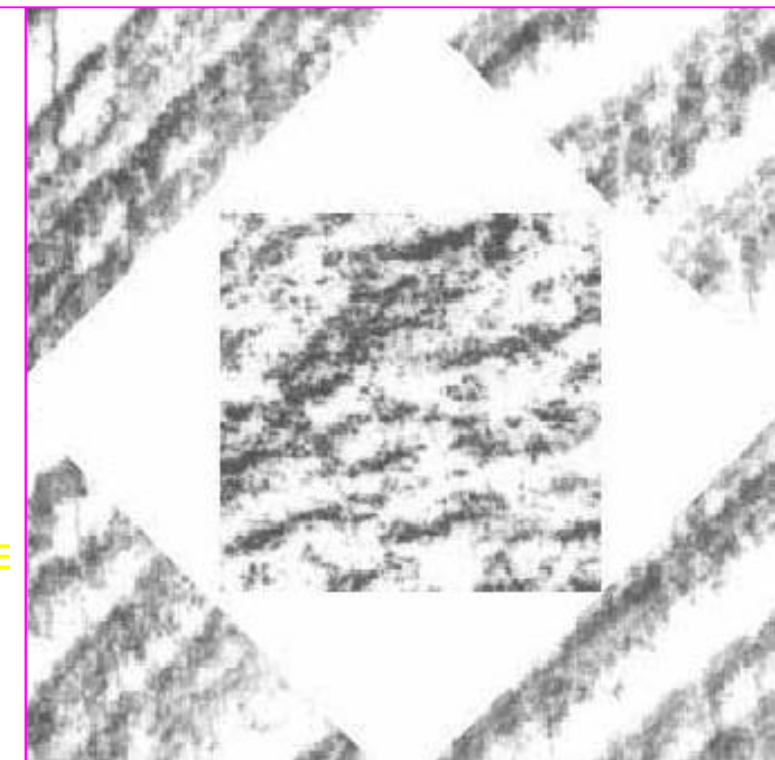
A3 ADMIN BUILDING TUNNEL NEW PIPING PLAN
SCALE: 1/2"=1'-0"

SHEET NOTES:

1. PROVIDE DRIP LEG AND TRAP. SEE DETAIL ON SHEET ME501.
2. PROVIDE MANUAL AIR VENTS AT HIGH POINTS IN PIPING.
3. REMOVE EXISTING STEAM AND CONDENSATE PIPING AS SHOWN. COORDINATE SHUTDOWNS WITH OWNER.
4. REMOVE EXISTING CHILLED WATER PIPING TO APPROXIMATE LOCATIONS SHOWN.
5. RE-CONNECT TO EXISTING PIPING WHERE SHOWN.
6. EXISTING BUTTERFLY VALVES, (INSTALLED IN PREVIOUS CONTRACT) SHALL REMAIN.
7. REMOVE DOMESTIC WATER FIRE LINE IN TUNNEL AS SHOWN. COORDINATE WITH CIVIL SITE UTILITY CONTRACTOR TO REMOVE BURIED WATER LINE TO HYDRANTS.
8. REMOVE EXISTING VALVES THAT WERE INSTALLED IN PREVIOUS CONTRACT.

GENERAL NOTE:

1. FIELD VERIFY EXACT LOCATION, DIMENSION, ETC. PRIOR TO ORDERING OR FABRICATING ANY PIPING.
2. HIGH PRESSURE STEAM SHALL BE SCHEDULE 80 BLACK STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
3. PUMPED CONDENSATE SHALL BE SCHEDULE 80 STEEL WITH THREADED FITTINGS. SEE SPECIFICATIONS.
4. CHILLED WATER PIPING SHALL BE SCHEDULE 40 STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
5. COORDINATE EXACT PIPING LOCATION AND ROUTING WITH ALL OTHER PLANS, DISCIPLINES, FIELD CONDITIONS, ETC.



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**UTILITY TUNNEL
EXPANSION
REDWOOD ROAD CAMPUS**

**SALT LAKE COMMUNITY COLLEGE
REDWOOD CAMPUS
SALT LAKE CITY, UTAH**

MARK	DATE	DESCRIPTION

DATE:	16 MARCH 2007
PROJECT NO:	06163660
HFSa PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS
SHEET TITLE:	

**LARGE SCALE PIPING
PLANS, SECTIONS,
AND ISOMETRICS**

ME402

SHEET 21 OF 27



- GENERAL NOTE:

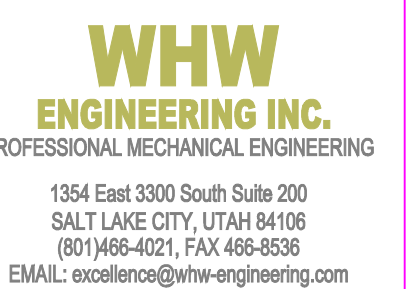
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2. HIGH PRESSURE STEAM SHALL BE SCHEDULE 80 BLACK STEEL WITH WELDED AND FLANGED FITTINGS. SEE SPECIFICATIONS.
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5. COORDINATE EXACT PIPING LOCATION AND ROUTING WITH ALL OTHER PLANS, DISCIPLINES, FIELD CONDITIONS, ETC.



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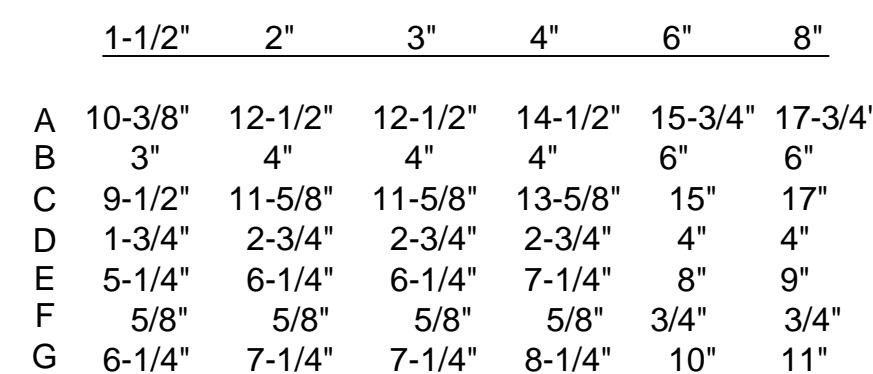
CONSULTANT



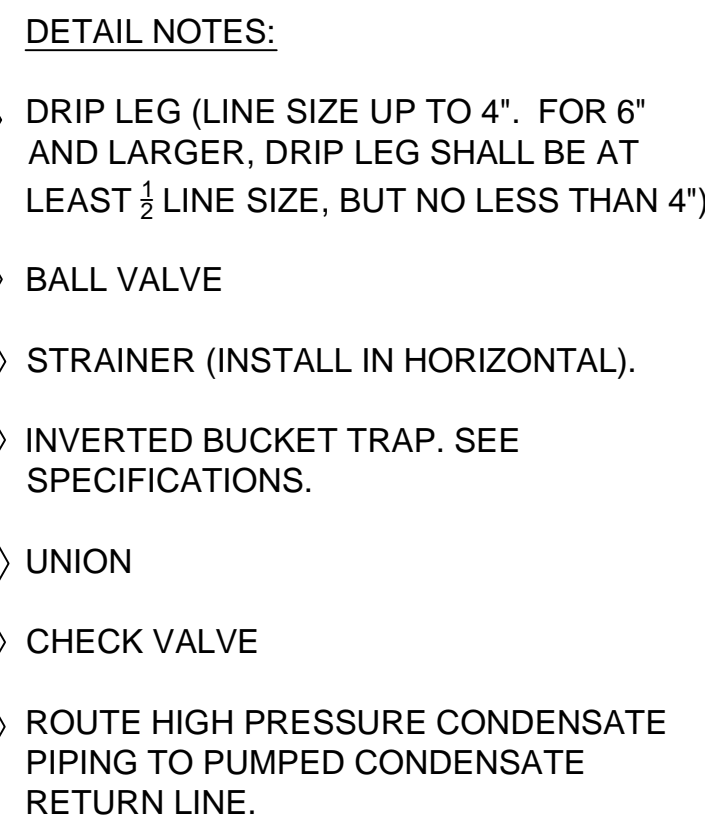
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LARGE SCALE PIPING PLANS, SECTIONS, AND ISOMETRICS

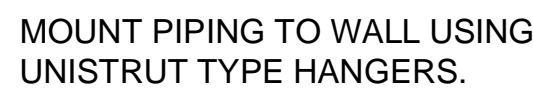
ME403



SCALE: NONE



SCALE: NONE



A2 PIPE RA
SCALE: NONE

3/4" HOLES FOR 5/8"Ø —
ANCHOR BOLTS. TYP. OF 6.

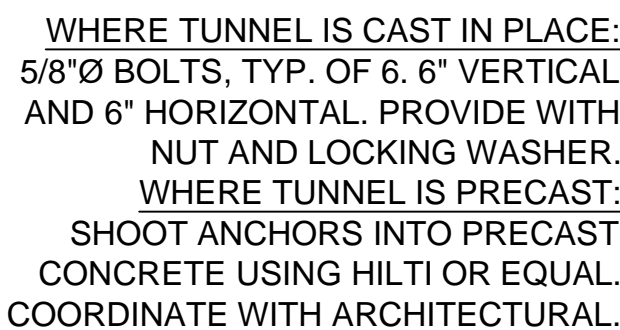


SCALE: NONE



SCALE: NONE

- ① PIPE INSULATION. SEE TABLE 1 FOR THICKNESS.
- ② PIPE SADDLE. SEE TABLE 1 FOR MODEL No.
- ③ 2"Ø, 4"Ø, 6"Ø AND 8"Ø PIPE.
- ④ PIPE ROLLER ASSEMBLIES. SEE TABLE 1 FOR MODEL No.
- ⑤ 1/2"Ø BOLT, LOCKWASHER AND NUT.
- ⑥ TUNNEL WALL. SEE ARCHITECTURAL.
- ⑦ 2'-0" UNISTRUT PIPE SUPPORTS. SEE ARCHITECTURAL DRAWINGS.
- ⑧ VERTICAL UNISTRUT. SEE ARCHITECTURAL DRAWINGS.
- ⑨ SEE SECTION B5/ME501 FOR TYPICAL VERTICAL SPACING IN TUNNEL. COORDINATE WITH FIELD CONDITIONS AND ARCHITECTURAL.



SCALE: NONE

1. AVAILABLE SUPPLIERS: TRANE 801-486-0500, US AIR CONDITIONING 801-463-5301, NU-TEMP 1-800-323-3977, CARRIER UTC 1- 713-413-4200, OR EQUAL
2. PROVIDE WITH TEMPORARY HOSES TO CONNECT TO EXISTING BUILDING CHILLED WATER PIPING. SEE DRAWING.
3. PROVIDE ELECTRICAL CABLEING TO TIE INTO ADJACENT BUILDING POWER. COORDINATE WITH ELECTRICAL PRINTS.
4. COORDINATE BETWEEN MECHANICAL CONTRACTOR AND CHILLER SUPPLIER TO SHIP, UNLOAD, SET, START-UP, AND RETURN TEMPORARY CHILLER

1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. PROVIDE WITH 10' POWER CORD.
3. PROVIDE WITH AUDIBLE AND BMS ALARM.

1. REMOVABLE LOUVER FOR FUTURE PIPE ACCESS.
2. PROVIDE WITH AUTO DAMPER AND COOLING ONLY THERMOSTAT. COORDINATE WITH 15910.

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DATE:	16 MARCH 2007
PROJECT NO:	06163660
HFSa PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	RB
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	
CONSTRUCTION DOCUMENTS	
SHEET TITLE	

ME501

SHEET 23 OF 27

1 REMOVE PIPING AS SHOWN. SEE
DETAIL SHEETS ME401 AND ME402.
PROVIDE ISOLATION VALVES FOR
RE-CONNECTION AT POINT OF
REMOVAL.

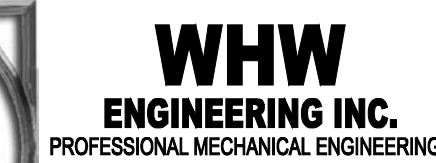


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UTILITY TUNNEL EXPANSION REDWOOD ROAD CAMPUS

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SALT LAKE CITY, UTAH

[illegible]

DATE: 16 MARCH 2007

PROJECT NO:	0616366
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HFSA PROJECT NO:	0647.0
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CAD DWG FILE NO:

DRAWN BY:	RE
CHECKED BY:	CL

CHECKED BY:	SV
DESIGNED BY:	WE

DWG TYPE:	MECHANICAL
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ARCHITECTURAL PHASE:

CONSTRUCTION DOCUMENT

SHEET TITLE

MECHANICAL DETAILS

ME502

SHEET 24 OF 27

FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	FIBERGLASS HOUSING 2 LAMP 18 FLUORESCENT FIXTURE WITH ELECTRONIC BALLAST.	LITHONA DM 232 AR MWOLT GB1010S	120 277	(2) F032/835

LIGHT FIXTURE ABBREVIATION SCHEDULE		LIGHT FIXTURE GENERAL NOTES	
NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.			
A.F.F.	ABOVE FINISH FLOOR	1.	REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
WALL/CGLG	WALL MOUNT AT CORNER OF WALL AND CEILING	2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
CCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	4.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT	5.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT		
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED		

BIDDING REQUIREMENTS	
1.	BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
2.	PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS <u>NOT</u> ALLOWED.
3.	WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
4.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

PRIOR APPROVAL REQUIREMENTS	
-----------------------------	--

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED, ANY EXCEPTIONS SHALL BE SO NOTED.
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SUBMISSION INFORMATION MUST BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMIC DATA WILL NOT BE APPROVED.
7. SAMPLE POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8. SUPPLY FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

LIGHTING SHOP DRAWING REQUIREMENTS

1. REFER TO SPECIFICATIONS 16001, 16510 & 16551.
2. MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
3. LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
4. COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
5. CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAME.
6. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM (IE, ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER) WILL NOT BE ALLOWED, REVIEWED OR APPROVED.
7. PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

EQUIPMENT SCHEDULE

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD AMPS	CONDUIT SIZE	WIRES			OCPD		REF. NOTES		REMARKS
							NO. SETS	NO.	SIZE	EQUIP. GND (1)	TYPE	AMPS	STARTER DISCONNECT	
CH-1	CHILLER	406 MCA	480	3	324.80	2"	2	3	4/0	2	CB	500	1B	
SP-1	SUMP PUMP	.25 HP	120	1	5.80	3/4"	1	2	12	12	CB	20	4A	

- NOTES:
- | | |
|--|---|
| 1. NON-FUSED DISCONNECT SWITCH | A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16 |
| 2. FUSED DISCONNECT SWITCH | B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16. |
| 3. BREAKER IN ENCLOSURE | C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16. |
| 4. MANUAL STARTER W/THERMAL OVERLOAD | D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION. |
| 5. MAGNETIC STARTER | |
| 6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION | |
| 7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION | |
| 8. MAGNETIC STARTER/BREAKER COMBINATION | CB = CIRCUIT BREAKER - THERMAL MAGNETIC |
| 9. VARIABLE FREQUENCY DRIVE | CKW = CHILLER KILOWATTS |
| 10. REDUCED VOLTAGE STARTER | |
| 11. DIRECT CONNECTION | |
| 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC. | NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR. |
| 13. TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE | |

ELECTRICAL SYMBOL SCHEDULE	
1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.	8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.	9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.

- | | |
|---|--|
| 1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. | 8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT. |
| 2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR. | 9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT. |
| 3. REFER TO DRAWINGS FOR DIRECTION OF LIGHTING. | 10. SUBSCRIPT DENOTES NEMA CONFIGURATION. |
| 4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED. | 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR. |
| 5. NEMA TYPE "NO" NON-FUSED UNLESS NOTED "F" (FUSED). USE "HD" 480 V. | * TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS. |
| 6. TO BE THE LOWER OF EITHER A 4' OR 6' BELOW CEILING. | |
| 7. PROVIDE "H.O." AND "S.S." PUSHBUTTONS AS REQUIRED. | |

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS	STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS
--	--

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CABLE TRAY	AS NOTED	
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	FLUORESCENT LIGHT FIXTURE	AS NOTED	1
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM
	FLOOD OR TRACK FIXTURE	AS NOTED	
	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
	SINGLE POLE SWITCH	+4'-0"	2.
	SINGLE POLE SWITCH	+4'-0"	4. 2.
	THREE-WAY SWITCH	+4'-0"	2.
	FOUR-WAY SWITCH	+4'-0"	2.
	KEY OPERATED SWITCH	+4'-0"	2.
	SWITCH WITH PILOT LIGHT	+4'-0"	2.
	VARIABLE INTENSITY SWITCH	+4'-0"	2.
	TIMER SWITCH	+4'-0"	2.
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.
	OCCUPANCY SENSOR	CEILING	
	OCCUPANCY SENSOR	+4'-0"	2.
	POWER PACK	CEILING	SEE DIAGRAM, SPEC.
	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.
	LOW VOLTAGE TRANSFORMER		
	DUPLX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED	9. 11.
	SIMPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLX RECEPTACLE	+16" OR AS NOTED	9.
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED	9. 11.
	GROUND FAULT INTERRUPTER DUPLX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
	FLOOR OUTLET WITH 20A DEVICE	FLOOR	
	MULTIPLE SERVICE FLOOR BOX	FLOOR	
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	10. WITH CAP. 11.
	CORD DROP		SEE DIAGRAM
	PLUGMOLD	+46" OR AS NOTED	11.
	TELEVISION OUTLET	+16" OR AS NOTED	11.
	DATA OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	FLOOR	
	CALL SWITCH	+4'-0"	2.
	CLOCK OUTLET	+7'-6"	8.
	CLOCK/SPEAKER COMBINATION	+7'-6"	

INDEX OF ELECTRICAL DRAWINGS	GENERAL NOTES
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|------|---|--|
| E001 | SYMBOLS, SCHEDULES AND NOTES | 1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. |
| E100 | ELECTRICAL SITE PLAN | 2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT. |
| E200 | PANEL BOARD SCHEDULES AND ELECTRICAL DIAGRAMS | 3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION |

GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE REQUIREMENTS ARE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
4. SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTOR.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN, OVER, OR PASS THROUGH ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUPED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.



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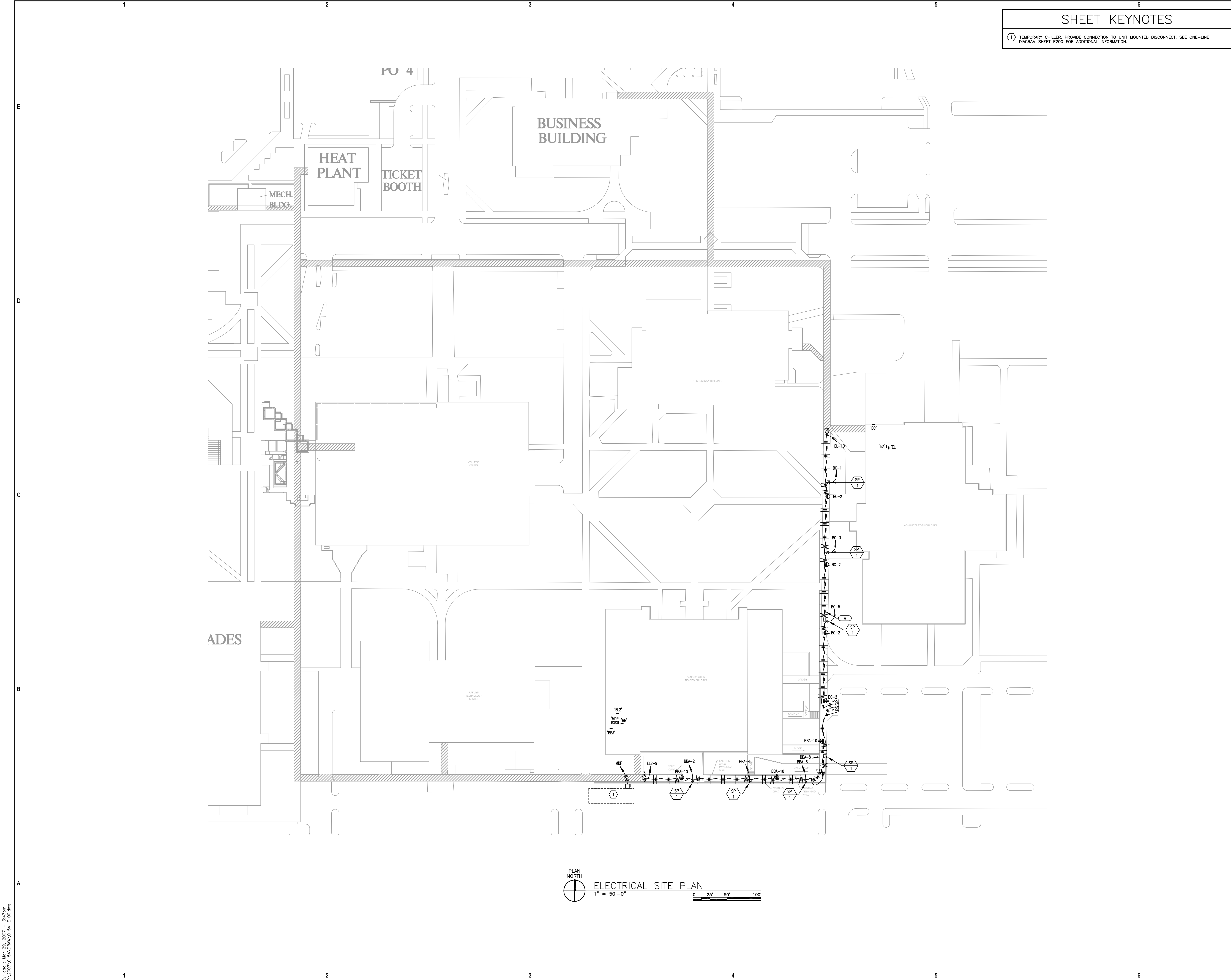
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PROJECT NO:	HF07015A
HFSA PROJECT NO:	0647.01
CAD DWG FILE NO:	07015A
DRAWN BY:	BNA
CHECKED BY:	RLW
DESIGNED BY:	RLW
DWG TYPE:	ELECTRICAL

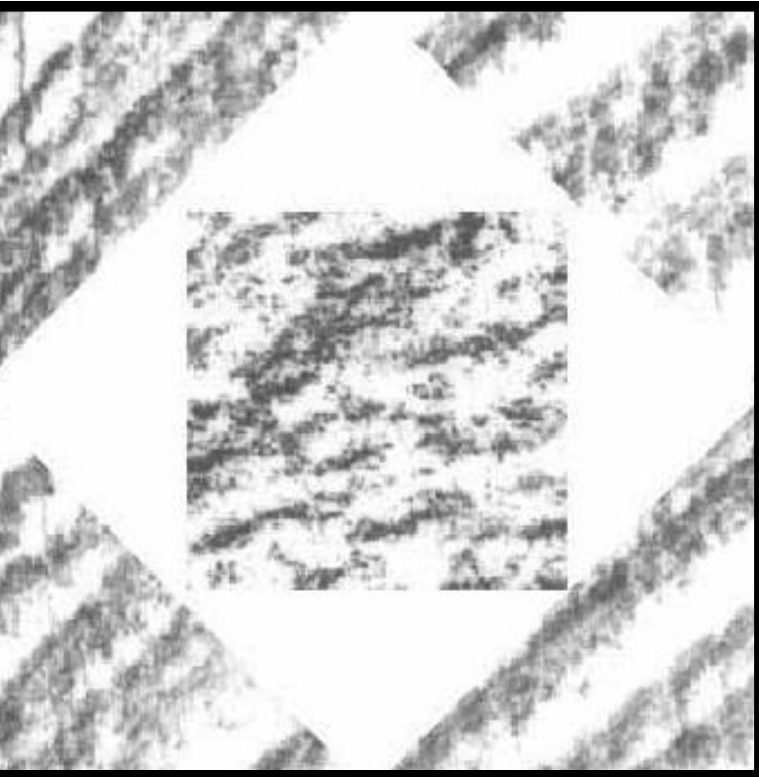
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CONSTRUCTION DOCUMENTS

SHEET TITLE	
<p align="center">SYMBOLS, SCHEDULES AND NOTES</p>	

E001



SHEET KEYNOTES	
①	TEMPORARY CHILLER. PROVIDE CONNECTION TO UNIT MOUNTED DISCONNECT. SEE ONE-LINE DIAGRAM SHEET E200 FOR ADDITIONAL INFORMATION.



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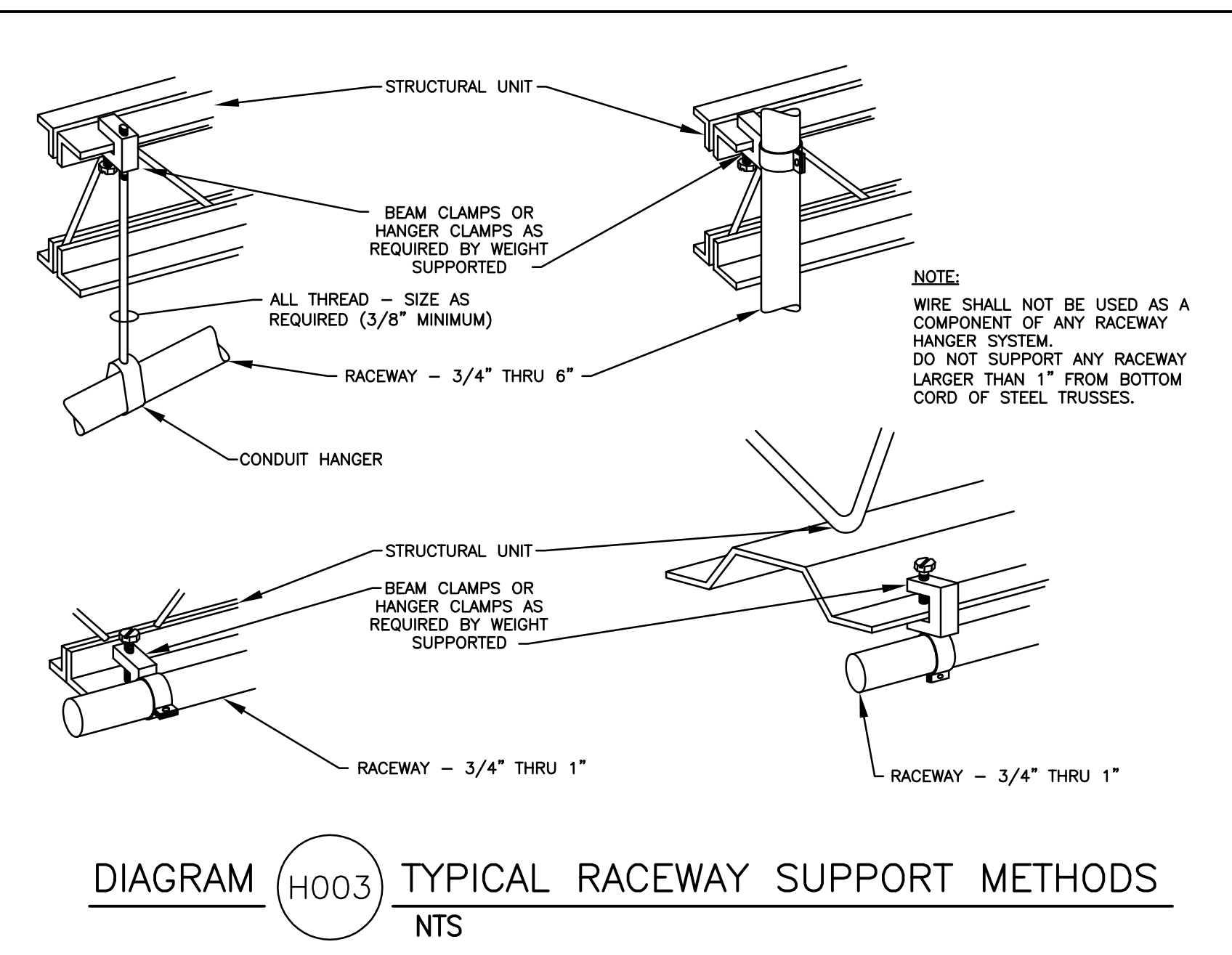
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DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

**ELECTRICAL SITE
PLAN**

E100

SHEET 26 OF 27



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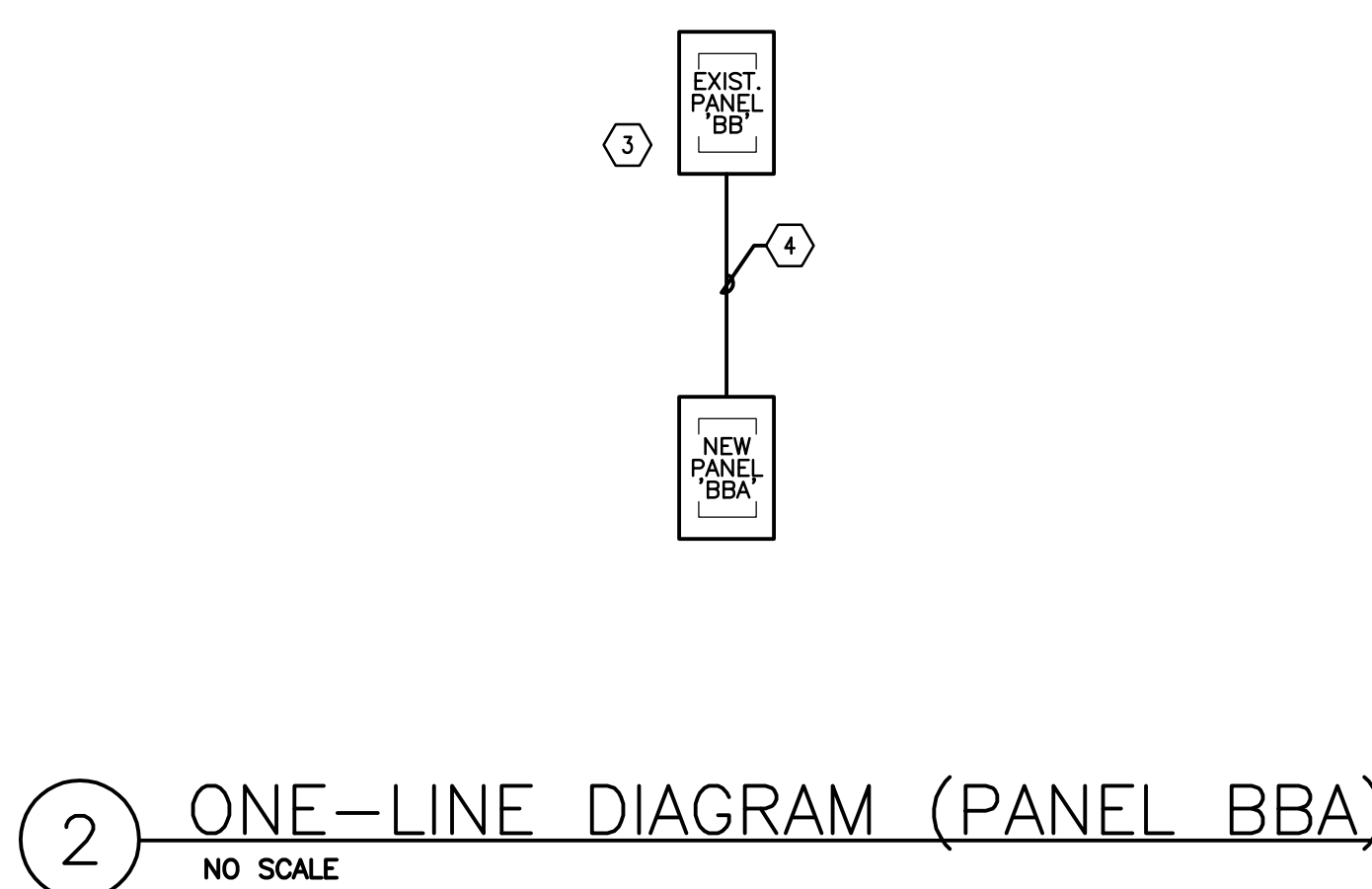
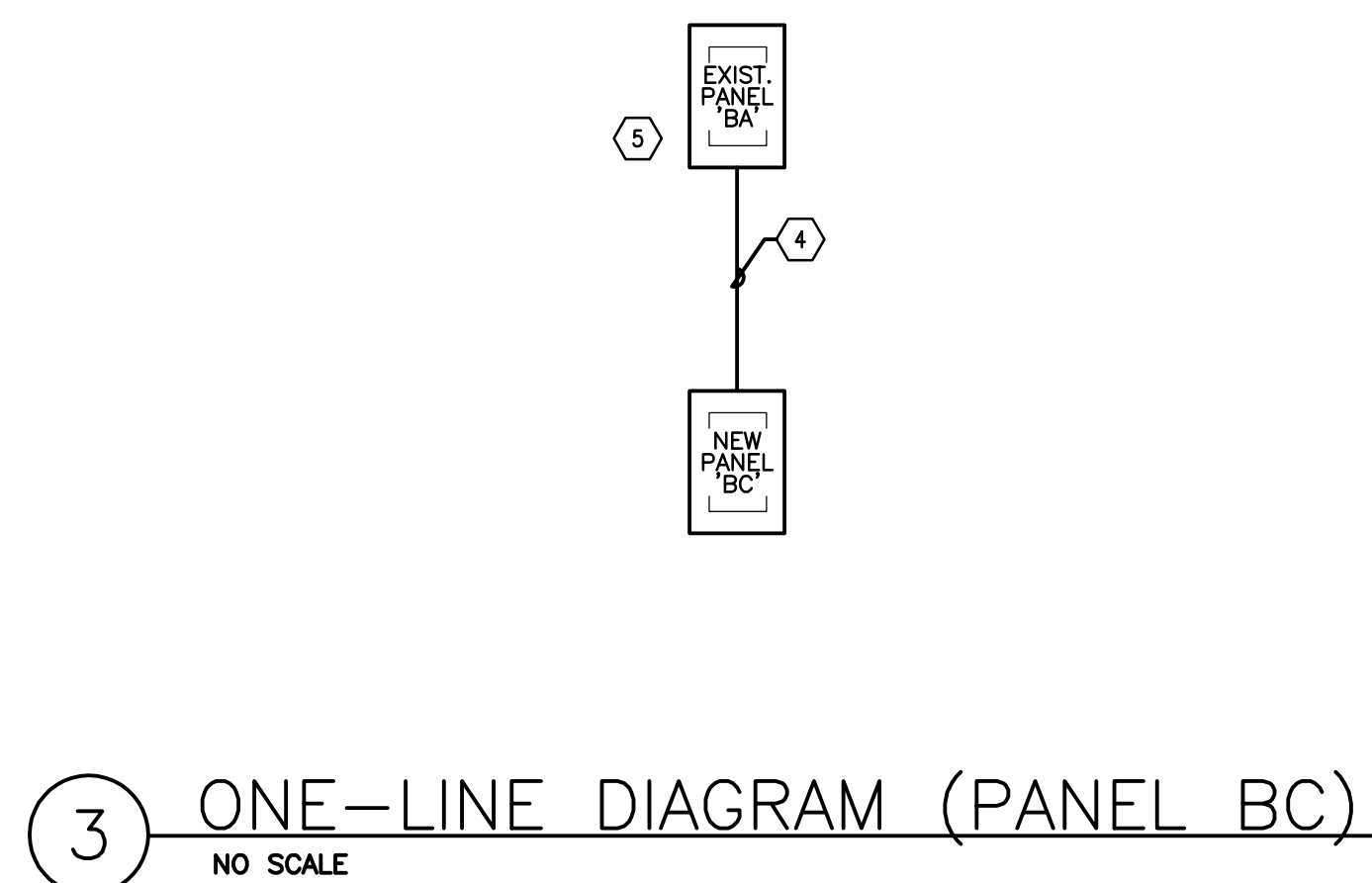
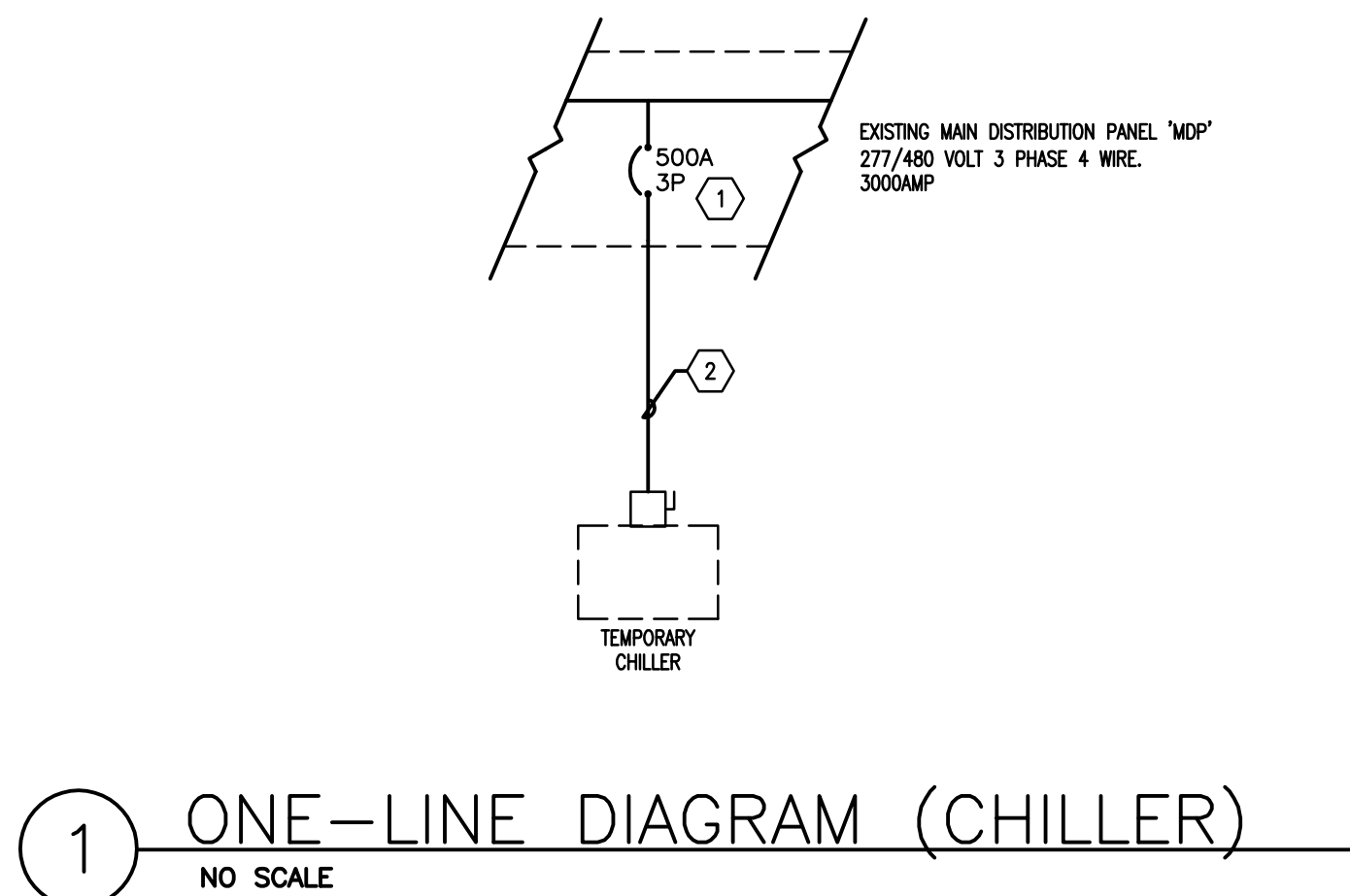
PANEL BOARD SCHEDULE																			
PANEL		BC		TYPE		NQ00		120/208		VOLTS		3		PH		4		W	
MOUNTING		FLUSH X SURFACE		DIMENSIONS		20		W		LOCATION		MECHANICAL ROOM		X		LUGS		BREAKER	
						6		0 (in.)											
						H		AMP											
																SUBFEED LUGS			
																		ISO GROUND	
																		200% NEUTRAL	
BRANCH BREAKERS																			
ITEM		AMPS	POLE	WIRE SIZE	CIR.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR.	AMPS	POLE	WIRE SIZE	ITEM			
						A	B	C	A	B	C								
SP-1 SPUMP PUMP		20	1	10	1	695			800			2	20	1	8	RECEPTACLES			
SP-1 SPUMP PUMP		20	1	8	5		695				5	4	20	1		SPARE			
SP-1 SPUMP PUMP		20	1	8	5			695				6	20	1		SPARE			
SPACE ONLY					7							8				SPACE ONLY			
SPACE ONLY					9							10				SPACE ONLY			
SPACE ONLY					11							12				SPACE ONLY			
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					39							40							
					41							42							
						695	695	695	800	0	0								
						1495	695	695	TOTAL										
						12	6	6	AMPS/PHASE										
JOB NAME: SLOC UTIL TUNNEL										EQUIP RATING				10,000					
										EQUIP RMS				50% RMS VMA					
										CONNECTED LOAD TOTAL				2885 VA					

PANEL															EL2		TYPE		EXISTING		277/480 VOLTS		3		PH		4		W	
MOUNTING															FLUSH		DIMENSIONS		20 W		LOCATION		ELECTRICAL ROOM		X		LUGS			
															X SURFACE				6 0 (in.)								MAINS		BREAKER	
																			H				AMP		100				SUBFIED LUGS	
																											ISO GROUND			
																											2000 NEUTRAL			

BRANCH BREAKERS																													
LEFT PHASE LOAD															RIGHT PHASE LOAD														
ITEM	AMPS	POLE	SIZE	CIR.	A	B	C	A	B	C	CIR.	AMPS	POLE	SIZE	ITEM														
EXISTING LOAD	20	1	12	1							2	20	1		EXISTING LOAD														
EXISTING LOAD	20	1	1	3							4	20	1		EXISTING LOAD														
EXISTING LOAD	20	1	5								6	20	1		EXISTING LOAD														
EXISTING LOAD	20	1	7								8	20	1		EXISTING LOAD														
LIGHTING	20	1	10	9		1350					10	20	1		EXISTING LOAD														
EXISTING LOAD	30	3	11								12	20	1		SPARE														
=	=	=	=	=	13						14	20	1		EXISTING LOAD														
=	=	=	=	=	15						16				SPACE ONLY														
SPACE ONLY					17						18				SPACE ONLY														
SPACE ONLY					19						20				SPACE ONLY														
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					37						38																		
					39						40																		
					41						42																		
					0	1350	0		0	0	0																		
					0	1350	0			TOTAL					CONNECTED LOAD TOTAL														
					0	5	0			AMPS/PHASE					1350 VA														

JOB NAME: SLCC UTIL TUNNEL		EQUIP RATING		AMPS RMS SUM	

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PANEL BOARD SCHEDULES AND ELECTRICAL DIAGRAMS

E200

SHEET 27 OF 27